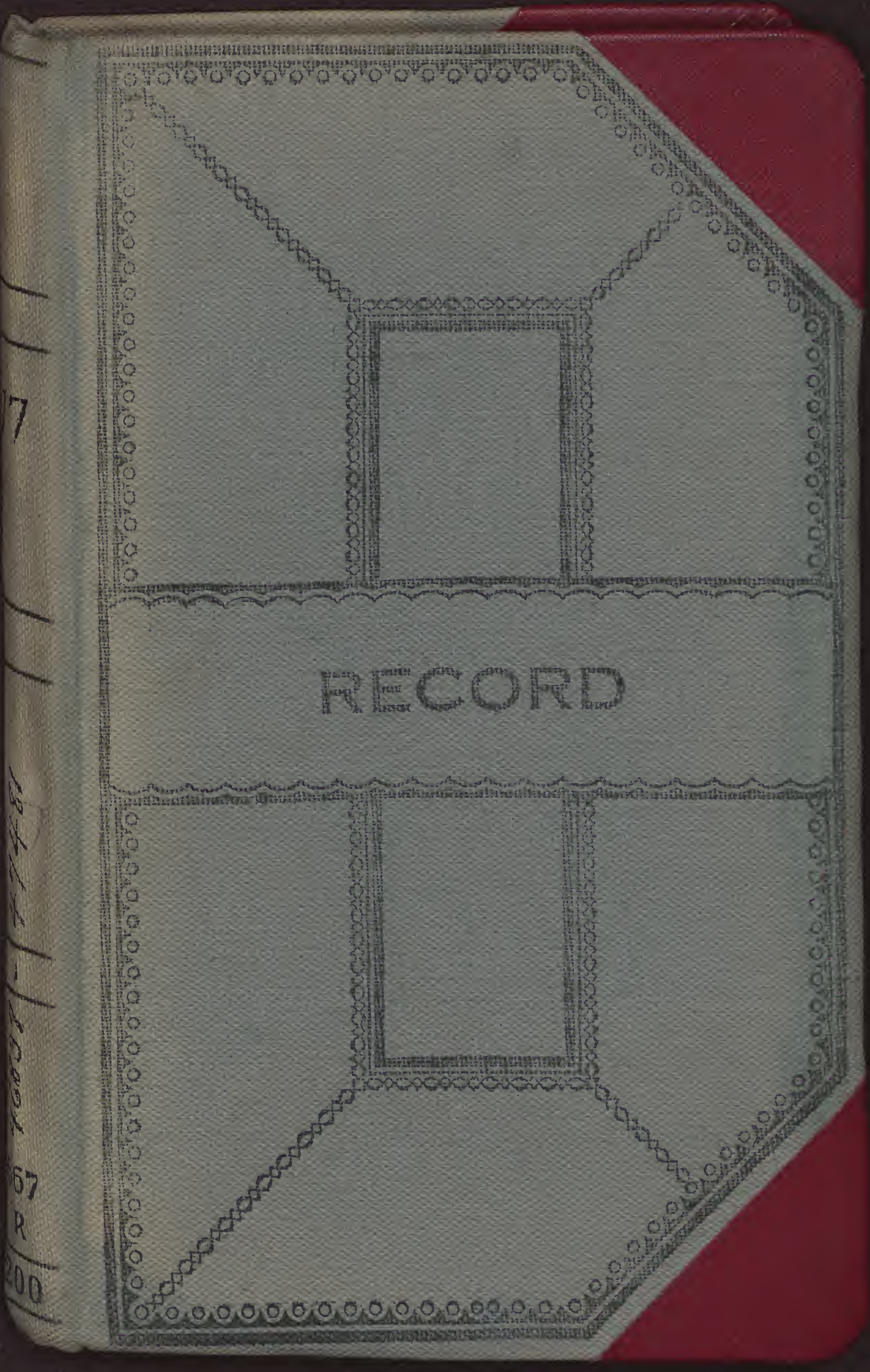

7

46837 - 47481

67
R
200

SHOUT
SHARE
IT

F. R. Fosberg

Collection and Field Note Book

No. 77

(August 2, 1965 - August 24, 1965)
(46839 - 47481)

CAROLINE ISLANDS — Page No.

Satawal Island .... 46839-46952 — 2-31
Ulithi Atoll, Falalap Islet near airport .... — 30-33
Left Ulithi for Woleai .... — 33
Ulithi Atoll, Asor Islet 46953-46974 — 34-39
Woleai Atoll .... — 40-46
  Wattegai Islet .... — 47-48
  Sholiap Islet .... — 49
  Falalis Islet .... 46975-47026 — 50-57
  Sholiap (Saliap) Islet 47027-47050 — 58-63
  Wottagai (Utagal) Islet 47051-47085 — 62-67
Ulithi Atoll, Falalap Islet 47086-47088 — 68-69
  Asor .... — 69
Left Ulithi for Eauripik Atoll .... — 68
Eauripik Atoll, Eauripik Islet......... — 70-77
  Siding Islet (with Evans), Eauripik Islet .... 47089-47167 — 78-91
Ifaluk Atoll, Ifaluk Islet 47168-47240 — 92-109
  Falalap Islet, Ifaluk Islet, Ella Islet.................. 47241-47286 — 110-123
Faraulap Atoll .... — 124-133
  Piz Islet, Faraulap Islet......... .... 47287-47397 — 134-151
Ulithi Atoll, Mogmog Islet, Potangoras Islet, Malotel Islet, Mangejan Islet Fasserai Islet (with Evans)....... .... 47398-47411 — 152-159
  Left Ulithi for Yap .... — 158

CAROLINE ISLANDS — Page No.

Yap .... 47412-47415 ... — 160-161
Left Yap for Airai, Palau (TT plane) ... — 160
Palau Islands, Koror, Ngerebe'ed .... 47416-47434 ... — 162-169
Boat trip to Auluptagel and Urukthapel . — 170-175
Palau Islands, Aulupse'el Island,
  Dii'Ebachel beach ... 47435-47463 ... — 176-181
  Ngerebe'ed beach .... 47464-47481 ... — 182-187
  Plants of Ngerebe'ed .... — 188-191

END

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1964 Caroline Is.

✓	Premna –	yar
✓	Athyrium	sivilkuel
✓	Phyllanthus	walpachi
✓	Achyranthes	éqqohur
✓	Eragrostis	burnak
✓	Clerodendrum	abui
✓	Pteris	sivilkuel
✓	Capsicum	arnuek
✓	Hedyotis	oposar
✓	Adenostemma	yoelusóck
✓	Cenchrus viridis	ălū
✓	Piper pon.	elek
✓	Ficus	awál
✓	Ipomoea	walikurd
✓	Cyperus	fithin naz
	fungi	seling
✓	Moss	lum

Satawal I.

✓	Mirabilis	flores
✓	Morinda	leen
✓	Fleurya	afelefelegëch
	Tabernaemontana	just brought from Ulithi
✓	Vernonia	opusar
✓	Polyscias	yobung
	Zephyranthes	([illegible]
✓	Portulaca sam.	öp
✓	Bleekeria ~~Cerbera~~	langet
✓	Citrus	lemon
✓	Artemisia	iarbwaz
✓	Colocasia	wot omalu
✓	Eleusine	paker
✓	Catharanthus	puso-puech
✓	Zoysia	fetil
✓	Ip. bat.	kamote
✓	Xanthosoma s.	yigalulu

Puguwei: man with canoe $1
Aleilei; eel $2

Leowih: $1 for shells + [illegible]

Amaranthus –	
✓ Asclepias	pugarigarita
✓ Alocasia	filĕ
✓ Vigna	olū
✓ Clerodendrum inerme	aupiii
✓ Coleus	wanguchá
✓ Fimbristylis	pukarangas
✓ Thuarea	fetilupuai
✓ Hymenocallis	lirio
✓ Lepturus	fetil
✓ Casuarina	neuhu
✓ Cosmos c.	purang palap
✓ Dioscorea f.	'pelai
✓ Asclepias	margarita
✓ Cler. spec.	aubui vilipū
✓ Pilea	seling
✓ Curcub –	calamansa

✓ Wedelia	atiat
✓ Ficus	auwan
✓ Artocarpus	māi
✓ Ipomoea l.	~~E~~ raiwal
– Blechum	nudanarre tiwai
✓ Tacca	mapu-mak ~~mag u mag~~
✓ Pipturus	aroma
✓ Polypodium	iàrai
✓ Crateva	afur
✓ Piper fa.	atobuei
✓ Nephrolepis	amārei
✓ Xanthosoma	Honolulu cha
✓ Leucaena	tangan tangan
✓ Ocimum	taipwo
✓ Portulaca ol.	erkul
✓ Pand. dubium	pogu
Mentha	eachueli
✓ Hernandia	nang

✓	Plumeria	seu
✓	Heb. til.	kilifu
✓	Premna	ear
✓	Caesalpinia	waripik
✓	Pseuderanth. atrop.	kalsino
✓	Asplen. nidus	cherlut rel luk
✓	Hib. hyb.	puetal
✓	Cyrtosperma	pulá
✓	Tournefortia	chel
✓	Scaevola	lat
✓	Cassytha	tig
✓	Terminalia	kil
✓	Canavalia	walima
✓	Triumfetta	asa
✓	Euphorbia	~~elich~~ ~~elicht~~ ~~elicht~~ ~~echit~~ echich

~~al~~

✓	Cordia	alu
✓	Pemphis	engi
✓	Guettarda	mueson
✓	Callicarpa	ligitar
✓	Barringtonia as.	kul
✓	Bruguera	yong
✓	Acrostichum	epéu
	~~Guettarda~~	
✓	Pisonia	moek
✓	Eugenia	faliaf
	Pand. tect.	fach
✓	Coconut flowers	nu ŭnŭ
✓	Sophora –	koliu konu

Labels typed

1965 Caroline Is.

Aug. 2 - south ~~east~~ side of island

at top of beach

46839. Tournefortia argentea L.f. 4 2 + occasional in open scrub

with M. Evans 6 + 40. Vigna marina (Burm.f.) Merr. 2 abundant

6 4 41 Scaevola taccada (Gaertn.) Roxb. very common, forming scrub fringe

6 3 + 42. Cassytha filiformis L. very common, parasitic on many plants.

~~43 Ter~~

same - in forest back of beach

6 + 43. Terminalia samoensis Rech. occasional to common

1 + 44. Canavalia cathartica Thou. common

#

3 1 + 45. Triumfetta procumbens Forst.f. locally common

#6

6 2 46. Euphorbia chamissonis (Kl. + Gke.) Boiss.

locally common

4 2 + 47. Cordia subcordata Lam rare

Satawal

1-2 m.

↓

"chel" leaves fleshy, frosty green; shrub 2 m. tall, flowers white. (leaves unusually wide)

creeping, forming mat, flowers yellow. "ölü"

shrub 2 m tall, (others seen to 5 or 6 m.), flowers white; ripe fruit fleshy, white. "lat"

leafless, stems green, or yellow where exposed to full sun; flowers white; fruit fleshy, greenish white, slightly aromatically acid. "tiq"

tree 5 m. tall; fruit immature. "kil"

Extensive twining vine, dark green, mostly sterile. "walima"

prostrate, branches ascending; all seen sterile. "ara"

stems erect, tips arching, flowers greenish. "echich"

slender tree 6 m. tall rather yellowish or chlorotic, sterile. "alu"

Labels typed

1945 Caroline Is.

~~458~~ Aug. 2 - ~~west~~ north side of island just back of beach

46848. Lepturus repens
locally common in open

4 2

4 49. Fimbristylis cymosa R.Br.
locally common

4 2 + 50. Thuarea involuta (Forst.f.) R.&S.
common

1 + 51. Casuarina equisetifolia L.
one tree seen

4 2 + 52. Clerodendrum inerme (L.) Gaertn.
forming low tangle
~~same~~

same - around dwellings in village

3 1 + 53. Caesalpinia pulcherrima (L.) Sw.
rare, planted

1 + 54. Pseuderanthemum carruthersii var. atropurpureum (Bull) Fosb.
rare, planted

3 1 + 55. Morinda citrifolia L.
common

4 1 + 56. Mirabilis jalapa L.
planted

1 57. Citrus aurantifolia (Christm.) Swingle
planted, rare

3 1 58. Tabernaemontana divaricata (L.) R. Br. ~~coronaria~~
planted, rare

3 1 59. Polyscias fruticosa (L.) Harms
planted, rare

4 1 + 60. Portulaca samoensis v. Poelln.
common on bare coral gravel

2 m.
↓

Satawal

forming loose mat; glaucous. "fetil"
"pukarangai"

prostrate, forming loose mats. "fetilupwai"

tree 12 m. tall. ~~"[illegible]"~~ ~~"[illegible]"~~
"wenhir"

shrub; flowers white with maroon stamens.
"aupui"

shrub 2 m. tall, flowers scarlet. "waipik"

sterile shrub with deep maroon leaves.
"kakive"

shrub 3-4 m. tall, flowers white, fruit almost mature, fleshy
"leen" (lān)

branched herb; flowers crimson. "flores"

shrub, sterile "lemon".

shrub, buds white
said to have recently been brought from Ulithi.

shrub 1.3 m. tall. "yobung"

prostrate, fleshy, flowers yellow. "öp"

Labels typed

+6861. Artemisia vulgaris L. specimen discarded
1 planted, rare, one small patch seen.

1 +62. Zephyranthes rosea
occasional, planted

1 63. Colocasia esculenta (L.) Schott
common, planted on dry land

B 2 64. Zoysia tenuifolia Trin.
common

x 1· 65. Solanum melongena L.
rare, planted

3 1 66. Ipomoea batatas (L.) Lam.
common, planted

3 1 +67. Catharanthus roseus (L.) Don
common, planted

x 1 +68. Eleusine indica (L.) Gaertn.
abundant

1 69. Alocasia macrorhiza
common

1 70. Xanthosoma sagittifolium (L.) Schott
common, planted

5 1 +71. Phyllanthus amarus
very common

6 1 +72. Eragrostis tenella (L.) Beauv.
very local

4 1 73. Hedyotis biflora (L.) Lam.
common along paths

4 2 74. Cenchrus ~~[illegible]~~ ~~[illegible]~~ brownii R. S.
common in open places

x 1 75. Cyperus brevifolius (Rottb.) Hassk.
very local

1 76. Cucurbita maxima

---

2 m aromatic, sterile. ~~"[illegible]~~
"iarbwas"

flowers pink

leaves glaucous "wot omalu"

forming dense mat-like sod. "fetil"

coarse, spreading, branched herb, flowers lavender, fruit subglobose, blackish purple.

sterile creeper. "komote"

corollas bright magenta
"pueopuech"

"puker"

other plants seen with enormous leaves, stem said to be eaten "filē"

glaucous; sterile "yigalulu"
"walpachi"

"bunak"

prostrate, flowers white.
"opusai"

culms spreading and ascending. "ālū"

heads green "fithir nai"

creeping vine, leaves spotted.
"calamasa"

[illegible]

1965 Caroline Is.

4 6877. Asclepias curassavica L.
4 1 + planted
x 1 78. Cosmos sulphureus ?
planted
1 79. Coleus scutellarioides L.
rare, planted
1 x +80. Vernonia cinerea var. parviflora
common
4 1 81. Ocimum sanctum
planted
x 4 82. Bleekeria cf. elliptica Ochrosia Labill.
planted, rare

1 +83. Hernandia sonora L.
rare, probably planted
5 +84. Hibiscus tiliaceus L.
occasional
1 +85. Plumeria rubra L.
occasional, planted

1 +86. Hymenocallis littoralis (Jacq.) Salisb.
common

x 2 87. Portulaca oleracea L.
locally common on
bare coral gravel
1 +88. Nicotiana tabacum L.
planted and carefully tended
6 88a. Amaranthus viridis L.
very local

Satawal

herb ♃, 1 m. tall; corolla
red, corona orange. "margarita" "mugarigarita"
herb ⊙, 1 m. tall, flowers
bright orange. "purang palap"
leaves maroon, corollas
blue. "waruguchá"
flowers purple "opusai"

aromatic herb, 3-4 dm.
tall, purplish. "taipwo"
shrub 2 m. tall, lactiferous,
corolla white, contorted in
bud. "langat"
small sterile tree "orang"

tree 8 m. tall, flowers
yellow. "kilifu"
thick stemmed shrub,
flowers white with yellow
center. "seu"
leaves distichous, scapes
compressed, sharp edged,
flowers white, with thin white
web. "lirio"
plant fleshy, brownish
green. "erkul"

herb 1 m. tall, leafy;
flowers rose-pink.
plants erect

Labels Typed

1965 Caroline Is.

Aug 2 – interior of island in dense breadfruit forest with many coconut trees

(with M. evans) →

4 6889. Clerodendrum speciosissimum

1x 1 occasional

4 1 90. Crateva speciosa Volk.
common

1 1 91. Premna obtusifolia
common

3 2 92. Digitaria pruriens var.
locally common

92a Thyraea involuta

3 + 93. Paspalum conjugatum Berg

with M. evans

3 1 94. Cyrtosperma chamissonis (Schott) M en.
planted in pit with water in bottom.
Cyrtosperma merkusii (Hassk.) Schott
det. DH Nicolson (US) 6/1998

4 2 + 95. Asplenium nidus L.
rare, at foot of large tree

3 1 96. Hibiscus rosa-sinensis x schizopetalus
very local

4 3 97. Piper ponapense C. DC
occasional, climbing on tree trunks

Satawal

2 m
↓

herb 1 m. tall, calyx red, odor foetid when broken or rubbed. "aubui vilifü" "abui"

small tree, 4-5 m. tall, flowers white, turning yellow. "afur"

~~[illegible]~~ shrub 3 m. tall, ~~[illegible]~~ aromatic; stems ~~R~~ petioles and flowers green. "iai" or "eai"

culms decumbent to erect.

prostrate, fruiting culms erect.

leaves to 4 m. tall, ~~scape~~ blades erect, bright green; scape 1.5 m. tall, curved at top, spathe bronze-green, glossy outside, pale green, dull within, spadix pale green, pollen only on a zone near top. "pula"

fronds ascending from rosette. "cherluk" "reluk"

shrub 1.5 m. tall; buds red. "pue tal"

vine, sterile "elek"

Labels typed 1965 Caroline Is.

46898. Dioscorea bulbifera L.
~~3~~ 1 occasional

~~3~~ 2 99. Ficus tinctoria
occasional

46900. Pilea microphylla
~~2~~ 1 very local on coral gravel

2 01 (moss)
common on coral boulders
in shade

2 02 (moss)
common on coconut trunks

1 03. Pandanus dubius
~~same~~ occasional

~~3~~ 2 04. Pteris tripartita Sw.
common

~~4~~ 2 05. Pipturus argenteus
occasional

~~4~~ 5 06. Athyrium blumei (Bergtr.) Copel.
common

3 2 07. Piper fragile Benth.
common, climbing on
tree trunks

3 08. Artocarpus altilis (Park.) Fosb.
dominant tree in forest

~~3~~ 2 09. Nephrolepis biserrata (Sw.) Schott ?
very common, terrestrial

~~4~~ 1 10. Adenostemma lavenia (L.) Ktze.
occasional

~~3~~ 2 + 11. Polypodium scolopendria Burm.
abundant, climbing on
tree trunks, also terrestrial

Satawal

sterile vine "pelai"

~~small~~ sparsely branched
shrub, all seen sterile
"awan" "awal"

stems fleshy "seling"

"luın"

"luın"

sterile shrub 3 m. tall;
all seen sterile. "pogu"
"sivilkuel"

shrub 3 m. tall. "aróma"

rhizome short, erect.
"sivilkuel"

sterile vine "atobuei"

small tree 10 m. tall, probably
a sprout from an enormous
one 30 m. tall and a meter
through. "mai" (mī)

fronds and rhizomes erect.
"amärei"

heads whitish. "yoelusoek"

"riz'ri"

Labels typed

1965 Caroline Is

4 6912. Xanthosoma violaceum Schott
spontaneous

1 +13. Tacca leontopetaloides (L.) O. Ktze.
occasional

x2 14. Achyranthes aspera L.
locally common in openings

x1 15. Premna obtusifolia R.Br. ?
occasional along path

32 +16. Capsicum frutescens L.
occasional along path

23 (with the moss grown) 17. Ipomoea indica (Burm.) Merr.
common in semi-openings

24 +18. Fleurya ruderalis
generally common

2 +19. Ipomoea littoralis Bl
occasional along trail

1 4 +20. Wedelia biflora (L.) DC.
common generally
except in deepest shade

63 +21. Blechnum brownei f. pubescens Sem.
locally common

1 22. Leucaena ~~glauca~~ leucocephala (Lam.) DeWit
single seedling seen

3 23 (moss)
on coconut trunk

32 24 (moss)
on coconut trunk

2 25 (fungi)
2 26
2 27 on dead wood
1 28

bags?

[illegible]

Satawal I.

petioles and even leaves
— dark purple. "honolulu cha"
scape 1.4 m. tall, flowers
green, leaves tripartite
— complex. "mokumok" or "mogumog"
erect herb to 1 m. tall,
— branching. "žegjohur"
shrub, stems and
petioles dark maroon,
— almost black; sterile. "ear"
suffrutescent herb or shrub
1 m. long; flowers white
with bluish stamens;
— fruit scarlet. "amuch"
extensive twiner, rather
— chlorotic; ~~[illegible]~~ one flower seen. "walikard"
stems red, fleshy.
"afelefelegech"
sterile creeper "raiwal"

sprawling extensive herb;
— heads yellow. "atiat"
stems decumbent to erect.
"rud aner re tiwai"

"~~th~~tangan-tangan"
"lum"

dense pale green cushion
~~"seling"~~ "lum"
"seling"
"seling"
"seling"
"seling"

labels typed

1945 Caroline Is.

46929 (lichens)
30 on coconut trunks
31

Aug. 3 — west end of island

1 + 32. Sophora tomentosa L.

1 lost 33. Mucuna gigantea (Willd.) DC. ! germinated on beach

~~2~~ 1 34. Nephrolepis bisemata (Sw.) Schott epiphytic on breadfruit tree in breadfruit-coconut forest in interior

Aug. 3 — north side of island

1? + 35. Hedychium coronarium L.
lost

~~4~~ 3 36. Pandanus tectorius Park. occasional at top of beach in village

~~5~~ 2 37. Eugenia ~~cf. aquea~~ small grove well back of beach in forest

1 + 38. Canavalia cathartica Thou. common in forest. mostly sterile.

1 39 (myxomycete) on rotting coconut leaf base.

[illegible] box

(to p. 28)

Satawal Island

2 m.
↓

brought by small boy. "kolu" or "komu"

presented by local people, origin not seen.

— flowers white, fragrant.

spreading tree 5 m. tall; fruits beneath tree. "fach"

tree 10 m. tall; fruits green, with small red stipe-like

— projection at base. "fariap".

vine climbing in trees, flowers from ground, magenta. "walima"

partly a dull orange network, partly globular scarcely stipitate dull dirty-whitish sporangia.

1945 Caroline Is.

Aug. 3 - south side of island - concave beach, with a very low erosion ramp of beach-rock (?) at its foot, crossed by transverse rills.

Photos b+w. 3 views of beach, ~~then~~ looking west.
Then 2 close-ups of erosion ramp.

Several higher beachrock strips.

The coconut plantation comes to the top of the beach but has a great deal of undergrowth, to tree size, of Scaevola, Terminalia, etc. Some Tournefortia in a fringe of Scaevola at top of beach.

Photos 2 [illegible] of beach

Forest undergrowth seems to become more developed and to have more species eastward, but in places has been cleared out. Many young coconut trees, also batches of nuts sprouting, arranged in rows.

Near east end the plantation is young most of trees with trunks 2-4 m. a few

[illegible]

Satawal

tall old ones. Scattered small Morinda, Guettarda, Pipturus, etc. Ground densely covered by Polypodium with some Nephrolepis, Asplenium nidus, seedlings of Morinda, Premna, Pipturus, Ficus. Coconut litter very abundant. Substratum of coral cobbles.

Photo Several b+w photos here.
Then, farther east of asplenium nidus on coral gravel.
One of interior scene here.

Monitor lizard about .5 m. long on outer pebble ridge slope.

Pebble ridge gradually increasing in ht. eastward to about 2.5 m.

On east end are scattered tall coconuts and scattered very battered Tournefortia in a scrub about 1.5 - 2.5 m. high of Scaevola, Wedelia + Clerodendrum inerme. Back of this a small grove of Pisonia grandis. No undergrowth under it except scattered asplenium

1965 Caroline Is.

nidus and a few hanging Wedelia stems that have taken root. Coral cobbles.

Back of that toward the village is a swamp with a few Bruguiera with pink calyces and a tangle of Acrostichum aureum and Clerodendrum inerme 2-3 m. deep. Completely covers the swamp where not shaded by Bruguiera.

~~at~~ Near west end of island under the tall breadfruit and coconuts Nephrolepis is dominant ground cover. Piper fragile is very common and both P. fragile and P. ponapense are climbing in many of the trees. Alocasia is common especially in semi-open places. Chatera is abundant, ranging from a few inches to 8 m. high. Nephrolepis and Polypodium, ~~are~~ ~~to~~ as well as Asplenium nidus are both epiphytic and abundantly terrestrial.

Satawal Island

A few deep pits have Cyrtosperma in them, large healthy looking plants. The holes are 2 or more m. deep with water in the bottom. No taro patch weeds at all. Some of these serve also as wells, with paths down to water level. One well is cemented over down rather deep, with a narrow slot for dipping up water.

In general aspect the island has the central part occupied by great emergent breadfruit trees ~~ta~~ rising above a coconut canopy. Surrounding this is a rather narrow (100± m.) zone of coconut plantation. The east end has fewer coconuts and some areas of tangled forest without coconuts. The extreme end is scrub of Clerodendrum + Scaevola, with some Tournefortia. Small grove of Pisonia and small mangrove depression. One well here possibly 50 m in from n. shore, water strongly brackish.

1965 Caroline Is.

Labels typed

Aug. 3 - near east end of island

46940. Acrostichum aureum L. abundant in small mangrove depression, on peat.
3 +

2 + 41. Bruguiera gymnorhiza (L.) Lam. several trees in peaty depression with Acrostichum

7 1 42. Callicarpa candicans (Burm. f.) Hochr. common in coconut grove

6 1 + 43. Pisonia grandis R. Br. small grove at edge of forest

~~44~~

Aug. 3 - south side of island inside forest back of beach

2 44. Athyrium blumei (Bergst.) Copel. rare, terrestrial

9 3 + 45 Guettarda speciosa L. occasional

7 3 46. Artocarpus mariannensis Trec. common
1

2 + 47. Barringtonia asiatica L. rare

1 + 48. Hernandia sonora L. rare

same - at top of beach

1 49. Ipomoea pes-caprae (L.) one seedling, only, seen.

9 7 + 50. Pemphis acidula Forst. rare 2 or 3 bushes ~~along~~

Satawal Island

0 m
↓

fronds 2 m. tall, from short vertical rhizome "epéu"

tree 8 m. tall, calyx pink, petals orange "yong"

1 m
↓

~~shrub~~ much branched spreading shrub 1 m. tall, flowers purple, ripe fruit maroon. "ligitar"

tree 8 m. tall, trunk and branches white; sterile. "moek"

2 m
↓

fronds almost erect from short erect rhizome.

shrub 3 m. tall, others seen taller "muesor"

tree at least 30 m. tall, buttressed. "mai"

small sparsely branched tree; sterile "kul"

tree 10 m. tall, steril. "orang"

3 m
↓

shrub 1.5 m. tall, much branched, leaves astringent-salty, flowers white. "engi"

Labels typed

1965 Caroline Is.

with M. Evans

46951. Triumfetta procumbens Forst.
12 + very common both in open
and shaded

1 52. Cocos nucifera L.
planted all over island

Aug. 4 - left Satawal
at 9 am. Calm sea,
broken cumulus, strato-
cumulus and nimbus clouds.
Wind seems to be from s.e.

Aug. 6 - arrived Ulithi
at about 8:15 am —
raining, as usual.

Satawal Is., ne

prostrate creeper,
flowers yellow. "ara" ara

unbranched tree; panicle
many-branched, branches
taken from base; pinnas
from middle of lower leaf.
Tree "nu" flowers "ülü".

Aug. 6 – Falalap Islet
near airstrip

Heliotropium ovalifolium var. depressum is widely distributed but not abundant. Tridax very common. Conyza canadensis very common in open areas along air strip, also Lippia nodiflora + Pennisetum polystachyum + Stachytarpheta jamaicensis

In taro pits the mud is about knee deep. Cyrtosperma is the principal plant, but there is considerable Colocasia.
Echinochloa colonum common, as well as E. crusgalli.
Ipomoea aquatica, with very fistulose stems, locally abundant.
Gambusia affinis common, intr. from Mogmog.
Common flat gray slug with white line down back is on Cyrtosperma and Ipomoea.
Ludwigia to 3 m. tall.
Vigna on hummocks and trailing into water.

Ipomoea aquatica kangkong eaten fried with meat

Photos north side –
b+w rills on erosion ramp
views of ~~beach~~ and boulder ridge. both directions.

b+w Fringe of Vigna, Ipomoea pes-caprae, I. tuba, Triumfetta, Wedelia biflora on cobble beach.

The Melochia has non-winged seeds.

Aug. 7
Left Ulithi for Woleai at 1 a.m.
Forenoon, Aug. 7, wind from south east. Bright sunshine, abundant scattered cumulus clouds.

Aug. 8 – Off Woleai at 8 a.m. anchored about 9:40.
Went with small boat to Falalis I.
The day is almost cloudless. brilliantly sunny, hot, calm.

Labels typed

1965 Caroline Is.

Aug. 6 – Asor Islet
on coral sand, semi-open area back of landing

46953 Hedyotis biflora (L.) Lam.
1 common

1 54 Spermacoce suffruticosa Jacq.
common

Aug. 6 – Falalap Islet
in coconut plantation

5 1 55 Ficus ?
one tree seen

3 1 56 Artocarpus mariannensis Trec.
common

4 1 57 Cyperus
occasional in path

3 2 58 Panicum ?
occasional in path

~~59~~

2 59 (grass) (Ischaemum ?)
abundant in weedy Taro pit

3 + 60 Acrostichum aureum L.
occasional in edges of weedy Taro pit

same – in extensive Cyrtosperma pit:

4 5 61 Cyperus odoratus L.
common

2 62 (alga)
common in water

7 5 63 Fimbristylis
occasional on wet hummocks

Ulithi atoll.

2 m
↓

prostrate; flowers white, corolla tube subglobose.

— erect; flowers white.

2 m
↓

sterile, lactiferous tree 8 m. tall.

— Tree 12 m. tall; sterile

0 m.
↓

sterile

Tufted

Labels typed

1945 Caroline Is.

46964 Echinochloa colonum (L.) Beauv.
7 common locally

6 65 Ipomoea aquatica Forsk.
abundant locally

6 66 Ceratopteris thalictroides
common

same, edges of air strip

3 67 Pandanus tectorius Park.
common, forming small groves

~~4~~ 7 68 Fimbristylis cymosa R.Br.
common in full sun

2 69 Melochia
occasional

same - in village
around dwellings

1 70 Crinum amabile
occasional

2 + 71 Chloris inflata
very local

5 72 Amaranthus viridis L.
very local

same - upper slope of
pebble-cobble beach
on seaward side of islet

4 + 73 Vigna marina L.
abundant in fringe vegetation

Ulithi atoll

0 m
↓

stems very fistulous,
floating, sterile;
"kangkong" "eaten fried
with meat".

fertile fronds erect.

1-2 m
↓

spreading tree, "rhizome"
up on stilts. Fruit on ground
beneath tree.

tufted

shrub 1 m. tall; flowers with
crimson centers, white
edges. Seeds wingless.

2 m
↓

scape maroon, slightly
compressed, 1 m. tall;
flowers maroon-
purple outside.

plant brownish green.

3 m
↓

creeper, flowers yellow.

Label typed

1965 Caroline Is.

46974 Ipomoea pes-caprae L.
4 +
common in fringe vegetation

to p.50

Ulithi atoll

3 m extensive creeper,
flowers rose purple;
stamens and pistil included.

Aug. 3 - From north ~~east~~ west, several miles off, the atoll seems to have very considerable land area for its over-all size. The islets, from this direction, give the impression of being predominantly wooded with broad-leaf forest, with few coconuts. Those islets seen across the lagoon give less this impression, but even on them breadfruit trees seem to be dominant, with few emergent coconuts. A subordinate layer of coconuts appears along the lagoon beach.

On an islet about 2/3 - 3/4 the way ~~south~~ east on the ~~east~~ north reef are two tall sharp trees, emergent, near the north end - possibly large Casuarina. This is Mariaon I.

From the north only the western third of Falalap I. seems well planted to coconuts. The northern peninsula seems covered by a mixed forest with only young coconuts in it. Tournefortia is abundant in the outer edges of this, with a fringe of

Scaevola, this very irregularly developed and, on the east side, almost lacking. The vegetation along this coast for a distance seems to have been badly battered by a storm or to have suffered from a serious drought. There are many dead or half-dead bushes and trees. The south third of this coast is again dominated by coconuts with a rather beaten and ragged undergrowth. Back a little are emergent breadfruits. Even some of these are almost leafless, though others seem in excellent condition.

Paliau I. has abundant coconuts at its north end but the east coast has rather few. Lined with a mixed forest, its outer margins appearing in very battered condition, Scaevola fringe practically lacking. Tournefortia and Pandanus abundant but outermost ones battered in appearance, as though a small typhoon had lashed the coast.

Large school of Porpoises—gray.

Raur I. has much the same appearance, but in the seaward edges of the forest Tournefortia is not at all abundant, while Pandanus is most common tree. Some large Pemphis, too. Scattered emergent coconuts inland, only a few small ones near coast. Much Pemphis at south end. The reef flat along this coast is rather narrow. It has a linear accumulation of boulders where the algal ridge should be.

In Raur Channel, well inside, a piece of reef with a tiny sand + gravel islet with a clump of young coconut trees, one Pandanus. Sand Islet, proper, that separates Raur Channel from Orarai Channel is much larger and has other vegetation, probably Tournefortia scrub, as well as a few small coconuts.

On Raur I. just inside the channel along the lagoon shore, is a considerable strip of Pemphis forest. Along

the lagoon shore, generally, is rather loose mixed forests with not many coconuts down along the beach. There are many along the islet but well back.

Paliau Islet also has a strip of Pemphis forest along its lagoon shore near south end. The rest of it is rather typical coconut plantation ~~[illegible]~~ up to beach. Some thatched houses.

Falalap I. has coconut plantation to beach along the entire lagoon shore.

Two islets west of Falalap have coconuts to lagoon shore. On second one scattered emergent breadfruit. On ~~and~~ east end, and more on west end, a sloping Scaevola fringe.

Sand Islet has open Tournefortia scrub, with some low coconuts and several larger Tournefortia trees toward south end on lagoon side. Is white gravel rather than sand.

1965 Caroline Is.

Third islet west of Falalap has coconut plantation on lagoon beach, with Scaevola fringe on eastern half.

Next islet, from a distance, appears to have very few coconuts but to be densely wooded.

Next one similar in eastern part but coconuts and habitations along western 2/3 of lagoon beach. A few emergent breadfruits toward east end.

Next one, large, is too far away, but lagoon beach seems lined with coconuts, some habitations, emergent breadfruits.

Smaller islets to south of this seem to ~~be~~ be only partly planted to coconuts, wooded along most of lagoon shore.

Woleai atoll

Falalis I. seems to have about western 2/3 of lagoon shore lined with coconut plantation, with Scaevola fringe, eastern 1/3 in mixed forest with emergent breadfruit, a few coconuts.
Western half has sand beach, Scaevola fringe, eastern is a gravel beach, pebbles & cobbles, no regular Scaevola fringe.
Habitations back of western half of beach.

The inner half of ~~the~~ ~~[illegible]~~ Falalis I. is open coconut plantation with dwellings. Then a large taro pit, at least ~~[illegible]~~ a number of acres in extent, probably partly natural and partly dug. Premna, ~~and~~ Hibiscus, Barringtonia racemosa around it.

plants seen not collected

Callicarpa
Saccharum officinarum
Cocos nucifera
Plumeria rubra
Tournefortia
Scaevola
Ocimum sanctum
Pemphis

1965 Caroline Is.

Back of taro pit is dense thicket. No time to investigate this.
In the taro pits Cyrtosperma is dominant, but rows of Colocasia are planted and carefully tended between the Cyrtosperma. Weeds are present but not very abundant.

In lagoon, about 100m out from shore, is a strip of patch reef, bare at low tide. Many corals on surface.

Turtle grass very abundant in shallow water, forming a sod, the rhizomes deeply embedded in sand. Halodule most abundant, Halophila next, Thalassia least common, its rhizomes so deeply buried that they were not dug up intact. This sod to be seen along lagoon shores of Falalis Wottegai and Shiliap islets. Apparently not at all on Falalap.

Woleai atoll

Wottegai Islet

Turf of sea-grasses in front.

Agave cf. sisalana, scarcely ~~[illegible]~~ any prickles on margins, several plants seen.

✓	Bidens - brought by Japanese	
✓	Vernonia - since war.	
✓	Plumeria	~~[illegible]~~ sena.
✓	Ficus	hawán
✓	Premna	ear
✓	Alocasia	filë
✓	Erythrina	par
✓	Calophyllum	~~[illegible]~~ ~~[illegible]~~ rageeh
✓	Callicarpa	ligitu

Gambusia affinis in well

✓	Asclepias	waluwanlios
✓	Cosmos	purang
✓	Saccharum	malé

1945 Caroline Is.

✓ Ocimum	waung warang
~~Ochrosia~~	
✓ Mammea	- liveu
✓ Cyrtosperma	pulaï
✓ Clerodendrum in.	habai habai
✓ Term. catappa	bel
✓ Eugenia	fariaf

Lagoon side of islet is open coconut groves & dwellings. much Zoysia. Village is dispersed. Only ~~[illegible]~~ a house or two together.

Ignatius ~~[illegible]~~ Wichilival

Taro patch very large so covered by trees that it was impossible to determine extent of it.

Premna, Morinda, etc on rather high boulder ridge.

Taro patches here apparently natural depressions. Cyrtosperma is only taro.

Monitor lizard seen on outer boulder ridge.

Woleai atoll

Lholiapo Islet.

✓ Hedyotis biff.	höff used medicinally
✓ Artemisia	liasbwas
✓ Gomphrena	~~[illegible]~~ waich
✓ Pemphis	haingi
✓ Tournefortia	~~ched~~ chek
✓ Aspl. nidus	~~[illegible]~~
✓ Pand. tect	ununinuhar fach
✓ Pand. dubius	pohu
Ip. tuba	ha vamac

Three zones - one of open coconut grove along lagoon - dwellings scattered in this.
Then an extensive taro patch - not continuous but more or less so.
Then thick forest, largely Eugenia, but with other things, incl. Morinda Premna, Barringtonia, Guettarda, ~~[illegible]~~ breadfruit, etc.
Tangle of Scaevola, Tournefortia, Pandanus

1965 Caroline Is.

Labels typed

Aug. 8 – Falalis Islet

46975 Halodule uninervis ?
3 forming sod in shallow water in front of lagoon beach

same – in open village among breadfruit and coconut trees

x 1 +76 Centella asiatica (L.) Urb.
locally abundant

x 1 +77 Eleusine indica (L.) Gaertn.
common

3 2 +78 Paspalum conjugatum Berg.
common along paths

3 2 79 Zoysia tenuifolia Trin.
locally abundant

1 80 Phyllanthus amarus Sch. & Th.
common

2 81 Pilea microphylla L.
locally abundant on coral gravel

x 1 +82 Triumfetta procumbens Forst. f.
local back of beach

4 83 Fimbristylis cymosa
common generally

8 3 84 Lepturus repens var.
common locally

x 1 85 Artocarpus altilis (Park.) Fosb.
common generally

1 86 Alocasia macrorrhiza (L.) Schott
common generally

Woleai Atoll

0 m. sterile, rhizomes buried.

1–2 m ↓

prostrate, forming a dense mat.

forming mat-like lawn around houses.

prostrate with ascending branches; sterile.

long loose runners, forming mats.

— large tree

Leaves attaining enormous size, to 2 m. tall or more, glossy green. sterile. "File". Starchy stems an important food, must be thoroughly cooked.

Labels typed

1965 Caroline Is.

46987 Morinda citrifolia L.
x 2 + common generally
1 88 Crinum asiaticum L.
very local, planted

1 +89 Barringtonia asiatica (L.) Kurz.
occasional
1 +90 Hymenocallis littoralis (Jacq.) Salisb.
common. planted

2 +91 Hernandia sonora L.
one tree seen
x 1 92 Pipturus argenteus
common

same — in coconut — breadfruit
grove back of village
x 2 93 Nephrolepis cf. biserrata Sw.
very common
~~94 Euphorbia~~
1 95 Euphorbia chamaesyce L.
rare in opening
1 +96 Portulaca samoensis v. Poelln.
occasional in opening
x 1 97 Hedyotis biflora (L.) Lam.
common locally in opening
x 1 98 Cenchrus brownii
occasional in opening
2 99 Eclipta alba (L.) Hassk.
occasional in opening
47000 Cenchrus echinatus L.
x 1 common

Woleai atoll

shrub 3 m. tall;
— buds white.
rosette; scapes somewhat compressed but edges rounded, to 1 m. tall; flowers white, stamens reddish.
— small sterile tree.

leaves distichous; scapes to 1 m. tall, compressed, edges sharp; flowers white.
— small sterile tree

shrub 2 m. tall.

fronds erect from short erect ~~rhizom~~ rhizome.
— plant reddish green

fleshy, prostrate; flowers yellow.
— flowers white.

culms spreading, then ascending.
— erect, rays white.

Labels typed

1945 Caroline Is.

47001 Adenostemma lavenia (L.) O. Ktze.
x1 occasional
x2 + 02 Fleurya ruderalis
common
x1 03 Paspalum distichum L.
very local
x2 + 04 Polypodium scolopendria Burm. f.
abundant, terrestrial
and on bases of trees.
5 1 + 05 Wedelia biflora (L.) DC.
common generally
5 3 + 06 Hibiscus tiliaceus L.
common
x2 07 Premna obtusifolia R. Br.
common

x3 08 Eugenia
occasional
x3 09 Allophylus timorensis Bl.
occasional
1 10 Ficus tinctorius sa Forst. f.
occasional
x2 11 Digitaria
very local
x1 + 12 Carica papaya L.
common
x1 13 Clerodendrum speciosissimum van Geert
rare, 2 plants seen
6 14 Euphorbia chamissonis (Kl. & Gke.) Boiss.
locally common

Woleai Atoll

heads whitish.

erect, stems fleshy, reddish.
prostrate, tips ascending; sterile.

sprawling elongate ~~resinous~~ aromatic herb; heads yellow.
small tree, 6 m. tall.
shrub 3-4 m. tall; flowers pale green. "eár". Wood used for canoe paddles.
small tree; sterile. "fariap" fruit edible.
shrub 3 m. tall; flowers white.
sterile shrub. "hawan"

culms decumbent.

seedling; many larger trees seen.
sterile herb, ill-scented when broken.
erect, tips arching; glands greenish yellow, no margins or appendages.

1965 Caroline Is.

Labels typed

same - in and around
~~taro~~ extensive taro pit
47015 Cyrtosperma chamissonis (Schott) Merr.
1 abundant, dominant crop
plant.
3 16 Polygonum minus
common
3 +17 Ludwigia octovalvis (Jacq.) Raven
common

x2 18 Lindernia antipoda
common in mud
x2 19 Cyperus brevifolius (Rottb.) Hassk.
occasional in mud
2 20 Ceratopteris thalictroides
common in mud
~~5~~4 21 Barringtonia racemosa
rare, growing in mud

1 22 Colocasia esculenta
planted, not abundant.
x2 23 Hibiscus rosa-sinensis x schizopetalus ?
planted on margins of
4 24 Cyperus odoratus L.
occasional
2 25 (moss)
common on banks of
3 26 Echinochloa crus-galli (L.) Beauv.
common in mud

Woleai Atoll

0-1 m

leave erect, bright green, up to
1.5 m. tall. "pula'"

flowers dull whitish,
spike green.
herb up to 1 m. or more
tall; petals yellow,
obcordate, caducous.
flowers bright lavender.

heads green.

fertile fronds erect

small tree; racemes
pendent; flowers
with pink stamens.
petioles bronze purple.

shrub 2 m. tall; flowers
bright red.

erect

1965 Caroline Is.

Labels typed

(Faliap)

Aug. 3 - Sholiap Islet

47027 on lagoon beach

~~467~~27 Pemphis acidula Forst.

153 + single bush

3 28 Pandanus tectorius Park.

occasional

same - in very dispersed village (~~houses~~ houses widely separated).

4 2 29 Hedyotis biflora (L.) Lam.

locally common on bare coral gravel.

~~30 Ischaemum~~

1 + 30 Thuarea involuta (Forst. f.) R. & S.

common, mostly sterile

3 1 + 31 Gomphrena globosa L.

planted in garden

2 1 32 Artemisia vulgaris L. specimen discarded

planted in garden

5 33 Eleocharis geniculata

local in low damp spot

2 34 Dioscorea alata L.

planted

1 + 35 Ipomoea littoralis Bl.

occasional

3 36 Ischaemum

very locally abundant

same - in taro pit

4 37 Cyperus iria

locally common

Woleai Atoll

1 m

↓ shrub 3 m. tall; petals white; leaves acid-astringent when chewed. "haingi"

tree 6 m. tall; fruit segments picked up on ground beneath. "fach"

1-2 m

↓ prostrate, flowers white, corolla tube globose. "hōp"

prostrate, forming dense mats

heads brilliant magenta. "waich"

aromatic herb. "Liarbwas"

1 m.

1-2 m extensive twiner; sterile.

↓ sterile twiner.

culms erect from prostrate bases.

0-1 m

stems soft

Labels typed

1965 Caroline Is.

47038 Thelypteris
~~5~~ 3 very common
~~6~~ 3 39 Ischaemum
very common

same - in dense forest
between taro pit and outer
beach ridge
4 40 Eugenia
dominant tree

~~2~~ 1 41 (vine - asclep. or Malf.?)
occasional, climbing in trees
7 +42 Asplenium nidus L.
locally common, terrestrial
2 43 Ixora casei Hance
very local
1 +44 Ipomoea tuba (Schlecht.) Don
rare
1 45 Pandanus dubius Spreng.
rare, only 1 seen
same - on high outer
boulder ridge
~~4~~ 2 +46 ~~[illegible]~~ Pisonia grandis R.Br.
occasional

~~6~~ 5 47 Scaevola taccada (Gaertn.) Roxb.
abundant

same - on pebble- cobble beach
1 +48 Ipomoea tuba (Schlecht.) Don
one seedling seen

Woleai Atoll

fronds erect

culms erect

1 m

tree 10 m. tall; fruits on
small twigs, reddish,
pear-shaped. "fariap"
— fruit eaten.
sterile twiner.

rosette; "unum nuhu".
— used for wrapping food for cooking.
shrub 3 m. tall; flowers
scarlet.
— sterile twiner

sterile tree 6 m. tall.
"pohn"

4 m
↓

small tree, others seen
quite large, trunk
cream color; sterile.
— shrub 2 m. tall
flowers dull white;
ripe fruit white, fleshy.

2 m
↓

Labels typed 1965 Caroline Is.

47049 Mucuna gigantea ?
1 one seedling seen
1 + 50 Tournefortia argentea L. f.
common

(Utagal?)
Aug. 8 - Wottagai islet
forming dense sod,
with other species,
in shallow water in
front of lagoon beach
~~6~~4 51 Halodule
dominant,
~~4~~3 52 Halophila cf. minor
abundant,
~~3~~1 53 Thalassia hemprichii
occasional

same - in scattered
village in coconut - breadfruit
plantation
1 54 (bamboo)
planted

1 55 Erythrina
probably planted
2 56 (moss)
on base of coconut tree D
1 57 Callicarpa candicans (Burm. f.) Hochr.
rare
2 + 58 Calophyllum inophyllum
occasional

Woleai atoll

2

shrub 2 m. tall leaves
fleshy, frosty pale green;
flowers white. "chel"

0
m.
↓

sterile; rhizome buried in sand.

rhizome very deeply
buried.

1-2 m.

dense clump, culms
2-2.5 cm thick, about 6-7
m. tall, arching at tips,
dark green; culm sheaths
wrapped around overlapping.
small sterile tree.
"par"
pale green cushions

sterile sprout "ligitar"

small sterile tree
"ragech" wood used for canoes.

Labels typed

1969 Caroline Islands

4 ~~7~~0 59 Mammea odorata (Raf.) Kost.
3 + rare tree

~~3~~ 2 60 Ocimum sanctum L.
planted in garden

1 61 Saccharum officinarum L.
planted in garden

~~3~~ 2 + 62 Asclepias curassavica L.
planted in garden

2 + 63 Euphorbia hirta
common weed in garden

~~3~~ 2 64 Cosmos sulphureus
planted in garden

3 + 65 Bidens pilosa L.
rare weed in garden

~~4~~ 3 + 66 Vernonia cinerea var. parviflora
common "generally

2 + 67 Euphorbia cyathophora Murr.
rare weed.

1 68 Polyscias scutellaria (Burm. f.) Fosb.
planted in garden

1 + 69 Tacca leontopetaloides (L.) O. Ktze.
occasional

~~7~~ 1 70 Vitex negundo
rare, planted

1 + 71 Caesalpinia pulcherrima
rare, planted

4 + 72 Muntingia calabura L.
rare, one seen near dwelling

2 + 73 Guettarda speciosa L.
occasional

Woleai atoll

sterile tree 10 m. tall.
"liveus"

~~[illegible]~~ herb 6 dm tall, very
aromatic, stems and
racemes purple. "warung" or "warang"

cane 1 m. tall, purple; sterile
"make"

herb 1.5 m. tall; corolla
red, corona orange.
"waliwanlios"

herb 1.5 m. tall, rays orange.
"purang"
"came in in Japanese time".

heads purple. "came in since
World War II."

bracts red at base.

shrub 1.5 m. tall, strong
odor when broken.

~~flower~~ scape 1 m. tall,
leaves basal 0.7 m. tall,
blade complex; flowers
green, filiform bracts
blackish purple.

shrub 2 m. tall; fruit
immature
used medicinally.

shrub 1 m. tall; flowers
scarlet.

shrub 3 m. tall; flowers
white.

shrub 3 m tall; sterile.

Labels typed

1965 Caroline Is.

47074 + Clerodendrum inerme (L.) Gaertn.
~~6~~ 3 occasional

~~3~~ 2 75 Zoysia tenuifolia Trin.
abundant

1 +76 Plumeria rubra L.
occasional

~~2~~ 1 +77 Vigna marina (Burm.) Merr.
common

1 +78 Zephyranthes rosea
rare, planted in garden

4 79 Dodonaea viscosa L.
one tree seen on lagoon beach, said to be only one on island.

1 +80 Terminalia catappa L.
one tree seen on lagoon beach, said to be common.

same - in extensive taro marsh

6 81 ~~Dryopteris~~ Thelypteris
very common

~~3~~ 2 82 Fuirena umbellata
common

~~3~~ 2 83 Hedychium coronarium
local

2 84 Canna (ornamental hybrid)
local

~~3~~ 2 +85 Acrostichum aureum L.
occasional

Woleai Atoll

"nabii" tangled shrub 2 m. tall flowers white, stamens' dark purplish maroon.

forming extensive close mat-like lawns.

thick-stemmed shrub, latex abundant, flowers fragrant, white with yellow center flushed with purple outside.

"semi" creeping; flowers yellow.

sterile tree 3 m. tall.

battered small sterile tree. "kel" seeds said to be edible.

0-1 m
↓

fronds erect.

herb to 1.5 m. tall, buds white

herb to 2 m. tall; flowers yellow spotted with red.

fronds to 2 m. tall.

1965 Caroline Is.

Aug. 10 – Falalap Islet

slugs are more or less ~~o~~ omnivorous – eat plants generally, cluster around bases of coconut trees in trash (Boykin)

"Truk lime" (round) intr. by Frank Johnson.

Areca intr. to ~~Fal~~ Asor by students several years ago. Trees on Falalap are older.

Labels typed

Aug. 10 – Falalap Islet
in village

H7086 Cyperus kyllingia
×2 one tiny colony in Zoysia lawn — 1–2 m. ↓ heads white.

83 87 Cassia
one plant seen — branched shrub 1 m. tall, flowers yellow.

same – at landing place
1 m.

43 88 Euphorbia chamissonis (Kl. & Gke) Boiss.
in sand — Prostrate (all seen were prostrate), lactiferous; leaves white beneath; glands yellow-green, without margin or appendage.

Aug. 11 left Ulithi for Eauripik 1 am. Arrived about 8 am Aug. 12.

Asor –
Passiflora edulis intr. by ~~Mr~~ Frank Johnson 1961.

1965, Caroline Is.

Aug. 12 - Eauripik - two main islets thoroughly planted to coconuts. Three tiny ones - 2 with coconut groves with Pemphis + other shrubs, one of them apparently with a Pisonia tree. This one with peripheral ring of platform rock undercut and almost forming mushrooms. This one is at eastern end. Other very tiny one with one coconut tree and a Tournefortia bush.
On main (eastern) islet the breadfruit trees just overtop coconuts in interior.

✓ Fimbristylis c.	pugar	
✓ Polypodium	tsitsi	
✓ Calophyllum	ravich sevan fitur	wood used for canoes
✓ Asplenium n.	unamu	
✓ Barringtonia as.	hul	
✓ Wedelia	wal	used medicinally

Eauripik atoll

Terminalia s.	kil	used medicinally seed eaten
Lepturus	pugar	
Premna	eár	wood very hard used for paddles used medicinally also
Ochrosia	uma	used for paddles + oars.
Scaevola -	rema	used medicinally
Pandanus tect.	fach	matting & canoe sails wood used for house
Morinda	lel	
Crinum	hiop	
Hymenocallis	liriio	
Hernandia	hochal	bark used for medicine for babies when sick.
Crateva	afuch	
Clerodend. inerm	habui	used to make fish traps
alocasia	file	
Pisonia	~~x~~ "mog"	

1945 Caroline Is.

✓	Achyranthes	haho
✓	Zoysia	puga
✓	Carica	waiwai
–	Crinum ~~asiatic~~ moorei	kirh
✓	Ipomoea bat	homote
–	Pep. pel.	opul ? kongkong
✓	Cuc. max.	calavas
	Ip. pes-caprae	harabwal
✓	Tournefortia	chel
✓		tarinai pach "ear of thunder"
	Musa	bwich
✓	Artocarpus mar.	— mai
	alt.	/
✓	Ficus	wotser
✓	Ficus tinct. fruit eaten	kawan
✓	Pteris	~~[illegible]~~ pöpö

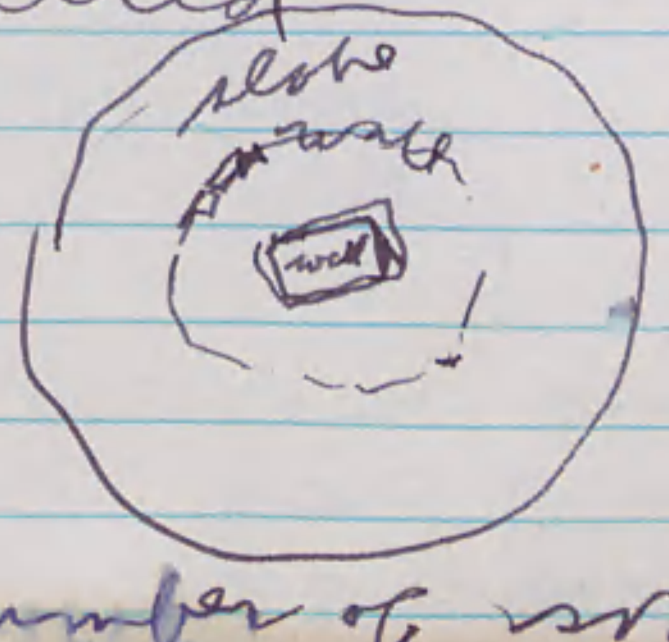
Eauripik ~~Atoll~~

✓	Pipturus bast fiber used for cordage + for lavalavas	arona
✓	Guettarda medicine + canoe paddle	wut
✓	Cyrtosperma	pwula' pula'
✓	Soulamea	marat

Calophyllum is very common, more so than breadfruit

✓	Eugenia fruit eaten	fariaf
✓	Capsicum	mwig
✓	Port. sam	höf
✓	Nephrolepis	~~[illegible]~~ännung

large well, not far perhaps 40 m. from south side of islet, doubly walled



used for drinking

also

a number of smaller wells

1945 Caroline Is.

both used medicinally

✓ Pilea mic. — awil nachis (small plant)

✓ Fleurya — hafalifal

✓ Digitaria — puka

✓ Plumeria — seur

Very large Pisonia tree on small bit of higher ground. People used to pray to it, also to a small coral boulder nearby – not at all a special looking boulder.

Fairy terns and white capped noddies numerous in Pisonia and breadfruit trees.

Eragrostis tenella — pugo

Allophyllus — nge

Triumfetta — harak

photos kod & b&w several views of taro pit

Ferns around bases of coconut trees. A few odd patches of natural veg. near beaches.

Eauripik Atoll

Siding Islet

Term. sam.
Pemphis — hoingi — wood used for part of loom
Morinda
Cocos
Guettarda
Polypodium
Tournefortia
Fleurya

photos kod & b&w of raised undercut platform surrounding islet. end of b & w. roll 2

Scaevola
Fimbristylis
Asplenium nidus
Sophora tom. — hulab

~~Atoms~~ This islet is a platform of conglomerate, possibly somewhat phosphatized (sample) undercut around edges, covered by coral debris in interior. Periphery almost dominated entirely by Pemphis 3-4 m. tall, considerable Terminalia esp. somewhat more inland. and also under coconut trees. Scaevola & Tournefortia scattered, less Guettarda, and Morinda.

Fimbristylis on ground on platform in sun, Lepturus in shade.

Polypodium and Asplenium abundant inland.

Sophora - one small plant. (said to be more abundant on other small islet to west)

Several Pisonia trees in center. Ficus tinctoria with them.

One tiny plant of Pipturus.

Vincent S. Sarongchog
John R. Hagilelgam

Ip. tuba	Il awamas
Term catappa	kel
Canavalia.	walamak
Curcuma (rose bracted) used medicinally & flowers for leis.	Teran

Cassytha is lacking, also Colocasia.

Vigna - hölu

Thalassia sam

Eauripik Islet is almost entirely covered by a rather scattered village. There are coconut trees everywhere, with scattered Calophyllum. Breadfruit trees are common in the central part. A deep taro pit, with Cyrtosperma and bananas in it is near the center. There is apparently not a single weed in it. Some grass, Fleurya, Pilea, Premna on banks. Digitaria.

A huge Pisonia tree near it, formerly a sacred tree - offerings placed there. A small coral boulder nearby also sacred.

Houses here are small, but very well built. Built on platforms of shaped stones. Stones are cut from reef, shaped with axe (adze?) and brought on raft to house site.

Photos b+w & Kod. of these platforms.

Labels typed

1965 Caroline Is.

with M. Evans (thru 47159)

Aug. 12 - Siding Islet 1.5 m
in narrow strip of
scrub around coconut
grove on elevated reef rock

47089 Pemphis acidula Forst.
4 2 + dominant shrub

31 +90 Morinda citrifolia L.
occasional

6 3 +91 ~~[illegible]~~ Terminalia samoensis Rech.
common

6 3 92 Scaevola taccada (Gaertn.) Roxb.
occasional

7 3 +93 Guettarda speciosa L.
occasional

9

3 +94 Sophora tomentosa L.
rare, one small plant seen

+4 10 95 Ficus tinctoria
several plants in coconut
plantation in center of islet

shrub 2.5 m. tall; leaves
slightly acid and
astringent when chewed.
flowers white. "haingi"
— wood used for part of loom.

shrub 2 m. tall. "lel"

shrub 2 m. tall, fruit
immature. "kil" fruit
— said to be eaten.

shrub 2 m. tall; flowers
and ripe fruit white.
— "rema" used medicinally.

small tree 3-4 m. tall;
flowers white "wut"
used medicinally and
— wood for canoe paddles.

sterile shrub. "hunlab"
said to be plentiful on
another small islet.
—

sprawling shrub,
4 m. tall, ripest fruits
orange. "kawan"

Labels typed

70 E

1965 Caroline Is.

Aug. 12 - Eauripik Islet

47096 Thalassia hemprichii
10 abundant, forming dense sod in shallow water, on sandy bottom, in front of lagoon beach

same - lagoon beach

43 + 97 Vigna marina (Burm.) Merr.
very local, one patch seen

same - in coconut - breadfruit forest on east end

3 98 Eugenia
occasional

15 + 99 Portulaca samoensis v. Poelln.
very abundant, carpeting ground, in opening made by breadfruit trees thrown by typhoon

47100 Eragrostis tenella (L.) Beauv.
3 + very local in ~~open~~ full sun in opening

6 01 Allophylus timorensis Bl.
one bush seen in sunny opening

4 + 02 Eleusine indica (L.) Gaertn.
locally common in sunny opening.

6 + 03 Triumfetta procumbens Forst. f.
locally common

3 04 Lepturus repens var.
occasional along paths

3 + 05 Ochrosia oppositifolia Lam.
occasional

Eauripik atoll

0 m rhizomes deeply buried, brittle. "som"

1 m creeper; sterile.

tree 8 m. tall, sterile. "fariaf" fruit eaten.

fleshy, prostrate; flowers yellow. ~~"ho~~ "hop"

"pugo"

shrub 1.2 m. tall; flowers white, fruit immature. "nge"

"karak"

Lactiferous tree 8 m. tall.

1945 Caroline Is.

Labels typed 7+8

same - in open village shaded by coconut and breadfruit trees.

47106 x + Hernandia sonora L.
uncommon

4 07 Fimbristylis cymosa R.Br.
abundant generally, especially in semi-open places

6 5 +08 Polypodium scolopendria
abundant generally terrestrial.

3 +09 Calophyllum inophyllum L.
common generally

4 +10 Asplenium nidus L.
common generally, mostly terrestrial!

2 11 (moss)
common on coconut trunks

1 +12 Barringtonia asiatica (L.) Kurz
occasional

4 3 +13 Wedelia biflora (L.) DC.
locally common

6 4 14 Lepturus repens var.
generally common

1 +15 Morinda citrifolia
uncommon

1 16 Premna obtusifolia R.Br.
occasional

Eauripik ~~atoll~~ atoll

1-2 m

sterile shrub 2 m. tall. "hochol" bark used for medicine for sick babies.

tufted, culms ascending. "pugor"

Burm. f.

rhizome creeping, occasionally climbing trees. "tsitai"

shrub, others seen trees to 20 m. tall; sterile. "revich" or "ravich", "sevan" "bitm" all three names used
wood used for canoes.

rosette "unuuu"

forming palegreen cushions. "lum"

small sterile tree. "hul"

sprawling resinous herb: heads yellow. "wal" used medicinally

forming loose mats.

sterile shrub

shrub, all seen sterile

1945 Caroline Is.

[illegible]

47117 Crinum asiaticum L.
1 planted
1 +18 Hymenocallis
planted, common
1 +19 Pseuderanthemum carruthersii
var. atropurpureum (Bull.) Fosb.
planted
x 1 +20 Clerodendrum inerme (L.) Gaertn.
occasional

1 21 Alocasia macrorrhiza (L.) Schott.
common
x 3 22 Zoysia tenuifolia Trin.
locally common
1 +23 Pisonia grandis R. Br.
occasional

1 +24 Carica papaya L.
occasional

1 25 Crinum procerum
occasionally planted

x 1 26 Ipomoea batatas (L.) Lam.
planted
1 27 Cucurbita maxima
planted

1 28 Peperomia pellucida
rare, on rock house platform

Eauripik atoll

rosette, sterile; flowers
said to be white. "kiob"
— sterile; leaves distichous

— shrub to 2 m. tall, leaves maroon;
flower deep pink.

tangled shrub: flowers
white with maroon stamens.

plants reaching 2 m.
tall; sterile. "filē"
— forming mat-like lawns.
"pugor"
small tree, an enormous
one seen. "mog", ~~[illegible]~~ this
large one formerly worshipped
as a sacred tree.
— small seedling others
seen ~~[illegible]~~ small trees
"waiwai"

rosette and scape 1.5 m.
tall, flowers purplish
red outside "kiol"
— creeper, sterile flowers used for garlands.
"homote" h is correct.
extensive creeper,
leaves with gray
spots in vein axils,
flowers orange.
"calavas"
fleshy
"opul kongkong"

Labels typed

1945 Caroline Is. Eauripik Atoll

7+E

47 29 Ipomoea pes-caprae (L.) Sweet creeper, sterile.
1 + very local "harabwal"

1 +30 Tournefortia argentea L.f. "chel" shrub 2 m. tall; leaves
uncommon frosty green, fleshy; sterile.

1 31 Artocarpus mariannensis Trec. tree 25 m. tall.
common (leaves picked from ground). "mai"

1 32 Pteris tripartita fronds erect from a
occasional short erect rhizome. "pöpö"

4 1 33 Pipturus argenteus shrub 1.0 m. tall "aroma"
occasional bark used in making line,
also for fine lava-lavas.

2 34 Artocarpus altilis (Park.) Fosb. large tree, lactiferous.
common "mai"

8 2 35 Crateva speciosa Volk. small tree 6 m. tall;
common flowers whitish turning
yellow, stamens dark red.
"abuch"

5 4 36 Ficus tree 10 m. tall, figs on
occasional trunk and larger branches
borne on ~~small~~ dwarf
branches. "~~wo~~" "wotsei" figs cooked and eaten"

Cyrtosperma merkusii (Hassk.) Schott
det. D.H.Nicolson (US) 6/1958

1 37 Cyrtosperma chamissonis (Schott) Merr. leaves to 2 m or more tall.
common in deep pits "wula" or "pula"

1 +38 Capsicum frutescens L. shrub 1 m. tall; flowers
occasional, planted white, fruit scarlet.
"mwig"

5 39 Nephrolepis biserrata fronds erect to spreading
locally abundant from short erect rhizome.
"inunug"

6 +40 ~~So~~ Soulamea amara L. shrub 3 m. tall; flowers
local, occasional white; fruit green.
"marat"

labels
88
typed 7+E

1965 Caroline Is.

47141 Pilea microphylla L.
43 common on steep ~~roads~~ banks of taro pit

~~5~~4 + 42 Fleurya ruderalis
common on steep banks of taro pit

4 43 Digitaria
common on steep banks of taro pit

~~7~~6 44 Achyranthes
common on banks of taro pit

1 + 45 Plumeria rubra L.
occasional, planted

~~45~~

1 46 Xanthosoma sagittifolia

1 + 47 Musa sapientum L.
common. planted

1 48 Canavalia
rare

2 + 49 Terminalia catappa L.
rare

2 + 50 Ipomoea tuba (Schlecht.) Don
rare

1 51 Curcuma
rare (said to be common on other islet)

2 (52 moss
2 (53 moss
on stones

1 54 Polyporus
// on coconut log.

Eauripik atoll

89

fleshy stemmed:
"awil pachis" tr. "small plant"
used medicinally

stems fleshy, reddish.
"hafalifal" used medicinally

"puga" or "puka"

branched herb, 1 m. tall.
"hoho"

small tree 3 m. tall;
flowers pinkish cream-yellow.
"seur" flowers used for garlands.

sterile herb, leaves glaucous

herb 4 m. tall, inflorescence pendent, bracts maroon, flowers whitish, fruit immature. "bwich"

sterile twiner, climbing in small tree.

shrub 2 m. tall; sterile.
"kel"

sterile twiner.

rhizome yellow, aromatic.

"tarinari pach" "tr. ear of thunder"

1945 Caroline Is.

47155 Pandanus tectorius Park.
1 occasional

1 56 Polyporus
common on rotting coconut logs

2 ea. 57 mosses
58 ..
59 ..
60 ..
61 ..
lost in fire

on coconut trunks

1 e 62 lichen
63 "
64 ..
65 ..
66 ..
67 ..
bag

on coconut trunk

Eauripik Atoll

tree 6 m. tall, fruit picked up on ground beneath it. "Pach" fruit said to be eaten.

1945 Caroline Is.

Ifaluk

✓ Vigna	– holu
✓ Ipomoea littoralis.	chaiwol
Pilea	no name
✓ moss	lum or loom
✓ Ficus tinct.	nawan
✓ Fimb. cymosa	pugas
✓ Alocasia eaten.	fili
✓ Centella	hara hara hara name
✓ Oplismenus	pugas
✓ Calophyllum wood for making canoes	ragich
Coconut	lu (ordinary) edible husk var. atol or luma
✓ Lepturus	woramas
✓ Hedyotis biff.	opuijal

Ifaluk atoll

– Nephr. bis.	hamara
✓ Ip. batatas	hamote
✓ Allophylus	ngos
✓ Premna	eán
✓ Cyrtosperma	pura
✓ Carica	waiwai
✓ Artocarpus	maī
✓ Tacca	mokamoh ~~mag~~mag
✓ Dioscorea bulb.	walumaío
✓ Hib. til.	hilifer
✓ Asplen. nidus	ilum me
✓ Piper fragile used medicinally	hata ho bue
✓ Eugenia	fatiaf
✓ Ixora	hatio
✓ Pipturus	arama
✓ Polypodium	chichi
✓ Adenostemma	atu'iot

1965 Caroline Is.

Ananas sterile not coll.

Callicarpa!

✓	Wedelia	atiot
✓	Canavalia cath.	alurna

2 fairy terns 1 bos'n bird
1 common noddy

✓	Guettarda	woot
✓	Tournefortia	chel
✓	Scaevola	uema
✓	Pandanus	fach

In interior many large breadfruit trees are down, leaving small openings! along beach ridge the Tournefortia Scaevola, Guettarda, have a very battered look. Said to have been a typhoon in 1964.

Reef flat on east side not more than about 100 m wide. Large boulder

Ifaluk atoll

ridge, about 4 m. high and very wide line the shore.

In interior Eugenia is one of principal components of forest. Fruit is very slightly obovoid, red, with little sweetness.

✓	Ipomoea tuba	walisma
✓	Crateva	abuch
✓	Hib. tyli.	pöacha
✓	Eup. cham.	hoichich

S.S. Gleximea 12 Dec 1964
bound for Japan
off New Guinea

please write
J. Bartley
91 Telford Rd.
Sunderland
England

On passage Cairns Australia for Nagoya. Japan. and a Merry X-mas & a Happy New Year to you
J. Bartley 2nd Eng. Officer

1965 Caroline Is.

Lagoon half of island is open scattered village with widely separated houses, here and there a small cluster. Zoysia lawn.

Back of this pig area and some small Cyrtosperma patches. Mostly Breadfruit - coconut groves. Back of this Eugenia becomes abundant along with breadfruit, fewer coconuts.

Many breadfruit trees down here, leaving openings.

Broad strip of boulder ridge near seaward beach is coconut - breadfruit - Eugenia - Guettarda etc.

Ferns generally abundant, esp. Nephrolepis & Polypodium least so in village.
Top of beach - Tournefortia, Scaevola, Guettarda.

✓ Colocasia ot
✓ Operculina turpethum havamash

Cyrtosperma is the most abundant crop, but some strips are planted to Colocasia.

Ifaluk Atoll

- Clr. inerme habui

Musa wish

On Falalap Islet the part near lagoon and channel beach is village. Back of this is a very large taro marsh - apparently a natural marsh or ~~po~~ filled pond, rather than an excavated pit, as there does not seem to be any debris pile nor steep banks. The peat soil is reasonably firm but quakes if jumped on. This marsh is cultivated in narrow strips, and apparently some sort of crop rotation is practiced. A unique feature is that some strips are planted to sweet potatoes. Different strips show different degrees of weediness. Ornamentals are planted here, as in other atolls, but in addition to the expected Hedychium, Canna, etc. Gomphrena and Ocimum are planted and tended. The sweet potato plants, as well as the Gomphrena and Ocimum here are far healthier looking than on dry land.

1965 Caroline Is.

Labels typed

Aug. 13 – Ifaluk Islet –
in dispersed village, shaded
by coconut and breadfruit
trees

47168 (moss)
2 very common on ground and
stones

6 + 69 Polypodium scolopendria
common, climbing on tree trunks

3 + 70 Barringtonia asiatica (L.) Kurz
occasional

2 + 71 Ochrosia oppositifolia
occasional

6 5 + 72 Morinda citrifolia L.
common

1 2 73 Ocimum
planted, in full sun.

3 + 74 Gomphrena globosa L.
planted, in full sun.

1 75 Citrus aurantifolia (Christm.) Swingle
planted, in full sun.

1 + 76 Nicotiana tabacum L.
planted, in full sun.

1 + 77 Caesalpinia ~~off~~ pulcherrima (L.)
planted, in full sun

3 + 78 Capsicum frutescens L.
planted, in full sun

4 + 79 Fleurya ruderalis
in open place

1 80 Cucurbita maxima L.
planted, in sunny place.

1–2 m
↓

"~~lom~~" "lom"

"gigi" (chigi?)

tree 10 m. tall, sterile.
"hol" ~~hol~~

small lactiferous tree,
sterile.

shrub 2.5 m. tall
"lel"

~~a~~ aromatic, very chlorotic
herb. "waunng wau"

branched herb, heads
magenta. "waich"

shrub. "hologul"

herb 1 m. tall, flowers pink.
"tamach"

shrub 1 m tall, flowers
scarlet. "waragig"

shrub 1 m. tall; flowers
white; fruit scarlet.
"muig"

stems fleshy, red.
"havalavat"

extensive creeper, leaves
with grayish spots in
vein axils; flowers orange.

Labels typed

1965 Caroline Is. Ifaluk Atoll

	47181	Tacca leontopetaloides (L.) O. Ktze	leaves 1 m. tall, scape 1.5 m. flowers green. "mokamok
1	+		
~~6~~4	+82	Portulaca samoensis v. Poelln. locally very common in garden, in sun.	prostrate, fleshy. flower yellow.
7	+83	Eragrostis tenella (L.) Beauv. local, in garden	
6	84	Cenchrus brownii abundant locally along path	culms erect.
~~7~~4	+85	Vernonia cinerea var. parviflora common locally	heads purple.
8	86	Euphorbia chamissonis (Kl. + Gke.) Boiss. common locally	stems erect, tending to arch at tips. "hani harenap" or "hoichich"
6	+87	Thuarea involuta (Forst.) R+S. very local	forming a dense mat, flowering branches erect, bending down in fruit. "bugol
6	88	Fimbristylis cymosa very common	tufted "bugol" "pulsar" or "sugar"
~~5~~6	89	Zoysia tenuifolia abundant, forming lawns	mat-like. "bugol"
6	+90	Guettarda speciosa L. on beach	small tree, flowers white, fragrant "ot".
~~5~~6	+91	Muntingia calabura L. common	small umbrella-shaped tree; flowers white, fruits immature "sugar"
6	+92	Hibiscus tiliaceus L. common	small tree, leaves white beneath, "hilivar" ~~small shoots~~ "hilifer" small shoots peeled for fiber.
	~~92~~		
7	93	Achyranthes occasional	slender branched herb 1.5 m. tall. "ha'ha"

Labels typed

1965 Caroline Is.

47194 Pteris tripartita
3 occasional

6 95 Cratera speciosa Volk.
common

2 96 Saccharum officinarum L.
planted in garden

6 +97 Catharanthus roseus (L.) Don
very common in gardens

4 98 Cosmos sulphureus
common in gardens

74 +99 Eleusine indica (L.) Gaertn.
common garden weed

47200 Hibiscus rosa-sinensis x schizopetalus
2 occasional just back of village

same – outer boulder ridge

75 +01 Vigna marina (Burm.) Merr.
common

1 02 ~~Kleinhovia? Dirclea?~~
seedling on pebble beach

1 03 Entada
seedling on pebble beach

4 +04 Ipomoea tuba (Schlecht.) Don
rare at edge of scrub

3 +05 Tournefortia argentea L. f.
common.

3 06 Pandanus tectorius Park.
common

Ifaluk atoll

rhizome + fronds erect. "papoaa"

small tree 6 m. tall,
petals white, turning
yellow; stamens reddish.
"abuch"

cane purple, to 0.7 m. tall.
children seen eating it.

flowers white.

herb to 1.8 m. tall; rays
bright orange.

shrub 2.5 m. tall,
flowers scarlet. "poacha"

3 m.

creeper, flowers yellow.
"bolu"

2 m

↓

creeper, sterile. "walima"

3 m.
"chel"

rather battered small
tree, leaves frosty green,
fleshy, flowers white.

3 m

spreading tree 5 m. tall,
fruits globose, phalanges
picked up on ground
beneath "fach"

1965 Caroline Is.

47206a Guettarda speciosa L.
. + common
~~5~~ 2 07 Scaevola taccada (Gaertn.) Roxb.
common

same - in dense
forest back of beach ridge
~~7~~ 1 + 08 Canavalia cathartica Thou.?
very local
10 2 + 09 Wedelia biflora (L.) DC.
locally common

1 10 Adenostemma lavenia (L.) O.Ktze.
rare
6 + 11 Polypodium scolopendria Burm. f.
very common, terrestrial
~~10~~ 3 12 Allophylus timorensis Bl.
common in undergrowth
~~13 Pipturus~~
~~4~~ 4 13 Pipturus argenteus (Forst. f.) Wedd.
common in edges of openings
~~3~~ 10 14 Piper fragile Benth.
common, climbing on
tree trunks

5 15 Eugenia
very common

~~4~~ 5 16 Piper fragile Benth
common, climbing on tree trunks
1 17 Ixora casei
very common in undergrowth

---

sterile tree, battered by
— typhoon. "woot"
shrub 2 m. tall, flowers
and ripe fruit white.
"nema"

2 m
↓
sterile vine climbing
— in trees. "aluma"
sprawling elongate
resinous herb; heads yellow
"atiot"
heads whitish "atu'iot"

fronds erect. "chichi"

shrub 2 m. tall, flowers
white; fruit immature.
"ngoi"
shrub 3 m. tall.
"arama"

vine, ~~a~~ somewhat
aromatic when broken;
— spikes white.
tree 10 m. tall; fruit reddish,
subglobose to somewhat
obovoid, not very sweet
but pleasant in flavor
— and texture "fariaf."
sterile vine. "hata ho bue"
used medicinally
shrub 3 m. tall, buds red.
"hatio" flowers used for garlands
and personal adornment.

labels typed

		1965 Caroline Is.	Ifaluk Atoll
4 7 2 ~~8~~ 7	18 +	Asplenium nidus L. common, terrestrial and epiphytic	rosette, frond ascending to erect. "ilun nu"
	~~19~~	same – in coconut – breadfruit groves back of village	1–2 m ↓
3	19	Dioscorea bulbifera L. occasional	sterile twines "waluma'o"
~~5~~ 2	20	Artocarpus altilis (Park.) Fosb. common	sprout from a large fallen tree, sterile. "mai"
1	21	Cyrtosperma merkusii (Hassk.) Schott det D.H.Nicolson (US) 6/1998 planted in small marsh	leaves erect, sterile. others seen much larger. "pura"
2 +	22	Carica papaya L. common	seedling, 1 m. tall, sterile. "waiwai"
4	23	Hedyotis biflora (L.) Lam. abundant, in shaded place	flowers white. "opujal"
~~4~~ 7	24	Oplismenus compositus (L.) Beauv. abundant	flowering culms ascending. "pugai"
	↳	same – in village	
~~1~~ 2	25	Ipomoea batatas planted	very chlorotic "$\overset{H}{h}$amote"
1	26	Premna obtusifolia R.Br. abundant	sterile shrub (all seen sterile) "eai"
7	27	Nephrolepis biserrata abundant	fronds erect from erect rhizome "hamara"
~~1~~ 2	28	Hedyotis biflora (L.) Lam. abundant along paths	flowers white
~~1~~ 4	29	Lepturus repens common along paths	tufted, with stolons "worámar"

[illegible] typed

1965 Caroline Is.

Ifaluk Atoll

4	47230 +	Calophyllum inophyllum L. common tree	tree 12 m. tall, sterile. "ragich" wood used for canoes.
~~5~~ 3	+31	Centella asiatica (L.) Urb. very common	prostrate "hara" or "hara hara nume"
1	32	Alocasia macrorrhiza (L.) Schott very common	other plants much larger, all seen sterile "filö" rhizome eaten.
1	33	Ficus tinctoria Forst. f. occasional	— sterile shrub (others seen much larger) "hawan"
2	34	(moss) cushions on coconut trunks	— "luam" or "loom"
8	35	Pilea microphylla L. very common on ground and on bases of coconut trees	stems fleshy
1	+36	Ipomoea littoralis Bl. common	sterile twiner. "chaiwol"
5	+37	Cassytha filiformis L. very local, back of beach	leafless, green stems; flowers white.
		same - in shallow water on sand bottom in front of lagoon beach and in channel	-0.5 m ↓
4	38	~~Halodule~~ Cymodocea ~~uninervis~~ rotundata Aschers. abundant, principal component of sod	sterile, rhizome buried but not deeply.
2	39	Halophila ovalis (R. Br.) Hook. f. minor component of sod	sterile
~~7~~ 6	40	Thalassia hemprichii (Ehrenb.) Aschers. minor component of sod	rhizome deeply buried, brittle

1965 Caroline Is.

Labels typed

Aug. 13 - Falalâp Islet
in village

1-2 m.
↓

4 7241 Hibiscus tiliaceus var. ?
3 local

~~4~~ 4 42 Operculina turpethum (L.) Manso
one plant seen

1 43 Colocasia esculenta (L.) Schott
planted on dry land
(also seen in taro pit)

2 + 44 Ipomoea littoralis Bl.
locally common
in opening back of village

1 + 45 Clerodendrum inerme (L.) Gaertn.
local in thicket back of
village

~~46~~

0-1 m
↓

same - in large taro
marsh, peaty soil

1 46 (~~Columella trifolia~~) Cayratia
rare in edge of

2 47 Ocimum sanctum L.
common, probably planted

1 + 48 Gomphrena globosa L.
occasional, probably planted
(purple form most common)

4 49 Ipomoea batatas (L.) Lam.
planted as an important
crop.

2 50 Hedychium coronarium
local, planted

3 51 Canna (hybrid)
local, planted

6 52 Cyperus
common to ~~abundant~~ abundant

Ifaluk atoll

shrub 4 m. tall,
leaves green beneath;
sterile.

sterile twiner, stems
sharply angled. "havamash"
sterile. "ot"

flowers rose purple

Tangled shrub; flowers
white, stamens maroon.
"habui"

aromatic herb, racemes
purple, flowers pale.
heads white.

creeper with ascending
branches; sterile.

sterile

flowers bright yellow.

tufted, culms sharply
trigonous.

~~Labels typed~~

1965 Caroline Is.

4 ~~7~~ 2 53 Ischaemum
~~4~~ 5 locally abundant
~~8~~4 54 Paspalum distichum L.
locally common
~~1~~5 55 Lindernia antipoda
common on open mud
9 56 Ceratopteris thalictroides
very common
6 + 57 Ludwigia octovalvis (Jacq.) Raven
very common
3 58 Thelypteris goggilodus
occasional
4 59 Polygonum minus
locally common
4 60 Alternanthera sessilis
rare
46 61 Cyperus brevifolius
locally common
6 62 Cyperus odoratus L.
locally common
~~9~~7 63 Bacopa ?
locally abundant

Aug. 13 - Ifaluk Islet
in dispersed village
1 64 (fungus)
on rotting coconut stump
1 65 Polyporus
on rotting coconut log
2 66 (moss?)
2 67 "
2 68 " bag
1 69 (lichen)
1 70 (lichen)
all on coconut trees

1-2 m

Ifaluk atoll

~~stems~~ culms erect
— from decumbent bases.
sterile

corollas bright lavender.

fertile fronds erect.

branched herb 1 m. tall,
— petals yellow, caducous.
sterile

stems ascending
— flowers whitish
stems erect, weak.

heads green.

small tufts.

spreading, somewhat rooting at
nodes, stems soft;
flowers whitish.

dull orange

1965 Caroline Is.

Aug. 14 - Ella Islet

gravel spit has pioneer vegetation of
Scaevola
Pemphis
Pandanus
Guettarda
Tournefortia
Cassytha
Cocos.

The corner at the base of the spit is occupied by a coconut grove that has been the site of a recent fire. Is rather open as a result.
Along the seaward coast is a solid strip of Pemphis.

Monitor lizard about 6 dm. long in interior forest.

Ifaluk Atoll

Plants seen

Scaevola
Tournefortia
Pandanus tectorius
Allophylus
Nephrolepis
Polypodium
Triumfetta
Terminalia samoensis
Pipturus
Guettarda
Pemphis
Asplenium nidus
Cocos nucifera
Premna obtusifolia
Morinda citrifolia
Ficus tinctoria
Tacca leontopetaloides
Lepturus repens
Vigna marina
Calophyllum (~~1 seedling~~)
Pisonia grandis
Artocarpus mariannensis
Athyrium
Barringtonia asiatica
Canavalia cathartica
Stenotaphrum micranthum
Hernandia sonora
Crataeva speciosa
Cassytha
Alocasia (in tiny clearing)
Wedelia biflora

1945 Caroline Is.

The largest tree seen was an enormous old Tournefortia, about 7 dm dbh & 20 m tall. Premna, Allophylus Morinda & Guettarda also canopy species. Seedlings & sprouts of Allophylus, Morinda are common.

Ground covered by Nephrolepis with some Polypodium.

Shrub layer principally Allophylus.

Substratum is almost entirely cobbles & boulders, these all densely covered by a thin moss.

Small grove of fairly large Calophyllum near s.w. corner.

Two very large Artocarpus mariannensis in from this with many seedlings

To

Ifaluk Atoll

An enormous boulder field extends in 100 m or so from seaward beach.

Inland from this dense forest, not tall, with emergent taller trees. Some young coconuts. Cobble surface.

Exposed reef (at low tide) extends from the end of Ella I. in an arc to the next tiny islet, ~~the reef is~~ except for a short gap. This reef is a field of enormous jagged boulders. This boulder field extends into the lagoon, but apparently not as dense there on lagoon reef flat.

On Ella Islet the emergent breadfruit are scattered irregularly from near one end to near the other. The Pemphis scrub is poor and irregular and mixed with other things for 2/3

to p. 122

1965 Caroline Is.

~~Labels typed~~

Aug. 14 – Ella Islet
in dense tangled
forest in interior of
islet

47271 Hernandia sonora L.
2 + rare, one tree seen, near
lagoon beach

2 72 Artocarpus mariannensis
occasional

3 73 Stenotaphrum micranthum
very local, in small
semi-shaded openings.

2 74 Athyrium
very local in densest
part. near west end of islet

1 75 fungus
on various plants

2 +76 Pisonia grandis R.Br.
local in west end of islet

x 1 +77 Triumfetta procumbens Forst. f.
very local in semi-open
spot near east end of islet

2 +78 Terminalia samoensis Rech.
occasional not far from
beaches (also on lagoon beach)

x 1 +79 Cordia subcordata Lam.
rare, just in from seaward beach

same – on seaward beach

6 4 +80 Pemphis acidula Forst. f.
abundant, forming a dense strip
of tall scrub or scrub forest
same – on lagoon beach

3 81 Premna obtusifolia R.Br.
common

Ifaluk atoll

1-2 m.
↓

sterile tree 5 m. ~~high~~ tall.
leaves glossy.

fallen large tree, sterile.
(one specimen a seedling).

prostrate, forming
soft loose mats.

rhizome, short erect.
a + b from different fronds
from same plant.

black sooty stain
on leaf surface

large tree 15 m. tall, sterile.

prostrate with erect
branches, sterile.

shrub 3 m. tall,
sterile.

sterile sprouts from a
fallen tree.

1 m.

shrub 4 m. tall, petals white.

1 m.

small tree, flowers pale green.

1965 Caroline Is.

Labels typed

same - in dense forest in interior

47782 (moss)
2 abundant, covering all coral boulders

1 ea.
83 fungus bag in [illegible]
84 fungus
85 fungus
86 fungus
all on decaying wood.

Ifaluk Atoll

1-2 m.

the length of the seaward beach. Then a stretch of magnificent Pemphis scrub forest, very dense. The coconut trees are in patches here. Also on the distal part of Falalap Islet.

On Falalap there are a few scattered emergent breadfruit out almost to the end. The main canopy is Premna or some other light green tree, with coconuts more abundant westward. About 1/3 the way from the corner next to the channel is an enormous tree crown, very low on top, small leafed. Probably a banyan, just back from the beach.

There are abundant evidences of at least a minor typhoon not too long ago – students who were helping me say 1964. In the interior of both Ifaluk and Ella islets, a number of large trees, mostly breadfruit have fallen, and the openings are not yet closed up, nor are the larger logs yet rotted noticeably. Piles of unrotted adze chips occupy some of the openings, showing that the logs have been utilized for canoe hulls. A number of canoes look very new. There is, especially on Ella Islet, a great deal of half-rotted debris – branches, in places making walking very difficult. On the seaward beaches especially that of Ifaluk Islet, the shrubs and small trees of Scaevola, Tournefortia and Guettarda have a beaten-up appearance – they look as though they have just begun to recover. There is a great amount of debris – sticks branches etc. in the scrub at the top of the beach.

1965 Caroline Is.

Faraulap

✓	Calophyllum	— sevan
✓	Centella	harahara. wenfueng
✓	Lepturus	~~b~~iuga
✓	Eragrostis	~~[illegible]~~unar
✓	Digitaria	buga
✓	Vigna	holu
✓	Scaevola	nat'
✓	Fimbristylis	~~puga~~ ingas puga ~~[illegible]~~
✓	Wedelia	atiot
	Cocos	lu
✓	Hymenocallis	lirio
✓	Morinda	lel
✓	Polypodium used for "grass" skirts.	chichi
✓	Pseuderanth. atrop.	kratane
✓	Zoysia	pogu e pajẽ

general ground cover in village is Zoysia but Lepturus takes over in outskirts.

✓	Canavalia	walimako
✓	Alocasia	filĕ
✓	Pteris	sirilimuja
✓	Nephrolepis	komara
✓	Triumfetta	kora
✓	Asplenium n.	wan'nu
✓	Pipturus	arome
✓	Pisonia	mok
✓	Ficus tinct.	howan
✓	Allophylus	ngun
✓	Tacca used for garlands	mokumok
✓	Premna	eár
✓	Art. mar.	mâi
✓	Pandanus dubius	poku

1965 Caroline Is.

✓ Eugenia fariap

✓ Crateva afuch

✓ Colocasia wot omolu
not a very good var.

✓ Mammea iofoj
iofoj, iofoch

✓ Crinum sp. hiob

✓ Fleurya kofarafat

✓ Thuarea puko̊l woripadap

✓ Pot. sam. kop

✓ Piper frag. otuopue

✓ Eleusine pugouma

Coconut plantation
with understory of
Crateva

✓ Zebrina wareuna saipan
extensively naturalized

~~Clerodn~~

✓ Callicarpa ligataa

✓ Carica wai whai

Faraulap atoll

Blechnum

Achyranthes - ligakoka

Dioscorea bulb.

Grove of large Pisonia
toward ~~of~~ seaward
side along large road.
But largest tree have
been burned at
base and fallen
some other smaller
ones cut.

✓ Ficus prolixa hiriau

✓ Tournefortia chel

✓ Guettarda oot it

✓ Ipomoea tuba avaimas

Seaward end of island
a broad cobble ridge,
covered by a wide belt
of tall scrub of Scaevola,
Guettarda, Tournefortia
tangled with Wedelia
and Ipomoea tuba.
Only an occasional coconut.
Inside this a strip of
forest, principally Pisonia.
Reef flat about 120-150 m. wide.

1965 Caroline Is.

Barringtonia as. hul

Inland the Pisonia thins out, but there are very large trees. Between them coconuts, Pipturus, Premna, Crateva, Eugenia and occasional Artocarpus mariannensis.

~~Th~~ A broad road, fully 5 m. wide follows the periphery of the island about 200 m inland. Along this are fair sized clearings where Alocasia is planted. More planted Alocasia here than I have seen elsewhere.

The ground cover is largely Nephrolepis. some Polypodiums some Aspleniums.

Piper fragile is very common on ground and climbing tree trunks.

Pandanus tectorius scarce

Musa occasional

Faraulap atoll

✓ Cucurbita calabasas

✓ Digitaria pruriens pukor

✓ Capsicum mwig

✓ Port. oleracea iahud

In center of this loop, are patches of dense forest, festooned with Piper & Canavalia, and sunny clearings where tobacco & alocasia are grown. Also a Cyrtosperma patch.

✓ Cyrtosperma pula

✓ Ludwigia sho

✓ Saccharum wol

✓ Colocasia ot

Taro ~~marsh~~ has sweet potatoes, ~~Oc~~ Ocimum, Celosia Hibiscus hyb. Cosmos, Musa sugar cane Cyrtosperma & Colocasia

✓ Dabrana hyb prak tal

1965 Caroline Is

Musa around banks not in mud
Vigna gets down in mud a little.
Euph hirta on bank

Small outcrop of atoll phosphate at end of taro pit

✓	Canna	aruus
✓	Hib. til.	ilifus
✓	Cananga	atis
✓	Polyscias	hayang
✓	Pseud. car.	libatuning
	Pand. tect	fash
✓	Acalypha hisp.	hatsiachil patu
✓	Cath. roseus	bobwosh
✓	Plumeria	seul
	Tagetes used for garlands	
✓	Terminalia s.	kil
✓	Cassytha used medicinally	eran táah tig

Faraulep atoll

Pi~~t~~h Pi'h Piz & Pic

At west end is a vast reef flat uncovered except for winding shallow channels at low tide. There do not seem to be any corals on it. It is covered by small coral gravel. Extends to Faraulep islet.
Well developed Scaevola fringe around this end, just outside the coconut plantation. Some Terminalia mixed with Scaevola, also Tournefortia, Wedelia & Vigna & Triumfetta abundant.

A number of small roughly circular pits 2-3 m across - one used for bathing, several for retting coconut husks for sennit. Apparently started when typhoon tipped over coconut trees. 1958. One fallen tree has turned up - trunk about 0.5 m vertically

✓	Rhizophora	sia
✓	Bruguiera	shong
✓	Sonneratia	mahat
✓	Pemphis	haingi

1945 Caroline Is.

Bruguiera used
medicinally use
bark and leaves.
wood for houses.

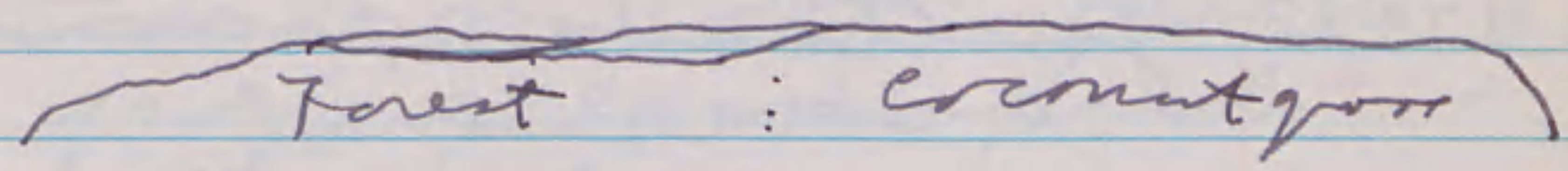
Rhizophora
for medicine &
wood for houses.

both planted from
drift seedlings.

The eastern half of this islet is covered by a village. The western half by coconut plantation and some coconut - breadfruit forest. Zoysia is the ground cover in the central part of the village. but Lepturus forms pure stands nearer the beach on the east end, under the coconut trees Wedelia occupies a belt a few m wide just back of beach.

Viewed from Pig I. Faraulap I shows about 1/2 coconut grove on lagoon side, one half

forest with few coconuts on seaward side



The other islet is more or less the reverse, the coconut grove on the side toward Faraulap, forest with few coconuts the other direction.

E. Yetita or Et'ta Islet.

1965 Caroline Is.

Labels out

Aug. 15 – Pig Islet
in open, dispersed village

47287 Guettarda speciosa L.
2 + occasional

3 88 Fimbristylis cymosa R.Br.
very common

1 +89 Zephyranthes rosea
planted in cemetary

4 90 Lepturus repens var.
dominant under coconut
trees back of beach

41 91 Cassia occidentalis L. ?
planted near house

3 1 +92 Euphorbia cyathophora Murr.
in full sun, near cemetary

same – in coconut plantation
in west half of islet

3 7 +93 Soulamea amara
rare.

3 +94 Terminalia samoensis v. Prelln.
occasional generally.

1 95 Tagetes
planted in garden

3 96 Allophylus timorensis Bl.
common in undergrowth

2 +97 Bruguiera gymnorhiza
2 trees in small pool of water
well in from shore

7 98 Rhizophora mucronata
1 tree in small pool of water
well in from shore.

Faraulap Atoll

1-2 m.

↓

tree 6 m. tall; fruits
pale greenish pink.
"oot" or "üt"

"pugor ingas" or "bugor ingas"

forming dense patches of sod.

much-branched shrub
1 m. tall; flowers yellow.
bracts red at base.

1 m

shrub 2 m. tall. "marat"

sterile shrub 3 m. tall.
"kil"

herb with strong odor
orange heads,

shrub 3 m. tall; flowers
white, fruit immature. "ngan"

0 m
↓

tree 5 m. tall. flower with
red calyx. "shong" bark and leaves
used medicinally, wood for building.
planted, from beach-drift seedling.

tree 4 m. tall; flowers whitish,
"sia" used medicinally, wood
for houses; planted, from beach
seedling.

1965 Caroline Is.

47299 ×2 + Pemphis acidula Forst. f.
one shrub at edge of
pool with mangroves,
inland.

same - at top of beach
west end of islet

47300 4 + Cassytha filiformis L.
locally common

Labels typed ↓

with McEvans

Aug. 15 - Faraulap Islet
in village

1 + 01 Plumeria rubra L.
planted

same - in outskirts of
village

46 02 Zoysia tenuifolia Trin
forming a lawn
~~the~~ between houses

4 + 03 Triumfetta procumbens Forst.
common locally

4 04 Nephrolepis biserrata
abundant generally
Terrestrial and on coconut stumps

1 + 05 Pseuderanthemum carruthersii
var. atropurpureum
planted

23 06 Pteris tripartita
occasional

1 07 Alocasia macrorrhiza (L.) Schott
very common, planted
and spontaneous.

Faraulap Atoll

0 m. shrub 1 m. tall, flowers
white "haingi"

1 m.

green, forming a mat
of leafless stems. "erau" or
"tirh rige" used medicinally.

1–2 m
↓
"seul"

shrub 3 m. tall, lactiferous:
stems thick; flowers
yellow in center, white
outside.

dense, mat-like.
"pogor e pajē"

prostrate. "korā"

fronds erect from
short erect rhizome.
"komara"

sterile shrub, leaves
maroon purple. "kratane"

rhizome short, erect,
fronds erect. "sivilimuja"

leaves reaching a very
large size "filē"

Labels typed

1965 Caroline Is.
7+E

47308 Canavalia cathartica Thou.
34 + climbing abundantly
in trees

X 5 + 09 Polypodium scolopendria
abundant generally

3 + 10 Morinda citrifolia L.
common generally

2 + 11 Hymenocallis littoralis (Jacq.) Salisb.
common, planted

3 + 12 Wedelia biflora (L.) DC.
very common

4 5 13 Hedyotis biflora (L.) Lam.
common

3 14 Scaevola taccada (Gaertn.) Roxb.
common at top of beach

4 + 15 Vigna marina (Burm.) Merr.
common at top of beach

4 5 16 Digitaria cf. timorensis Bal.
locally common at top
of beach

4 + 17 Eragrostis tenella (L.) Beauv.
locally common back
of beach

4 18 Lepturus repens var.
common back of beach

4 + 19 Centella asiatica (L.) Urb.
very common

Faraulop atoll

twiner, fruits pendent.
"walimako"

fronds reaching 0.7 m. tall,
from creeping rhizome,
terrestrial and on
coconut stumps "chichi"
leaves used to make "grass"
skirts.

shrub 1.5 m. tall, (others
seen to 10 m.). "lel"

leaves distichous,
scapes compressed,
edges sharp, 1.5 m. tall;
flowers white "liris"

1 m ↓

sprawling resin-scented
herb, heads yellow.
"atiot"

prostrate; flowers white.

shrub 1.5 m. tall; flowers
white. "nat'"

creeper, ~~flo~~ forming
loose mats; flowers
yellow. "holu"

"bugo" or "pugo"

"purar" or "burar"

"pugo" or "bugo"

forming mats. "hara hara wen neng"

1965 Caroline Is.

Labels typed 7+E

47 2 320 + Calophyllum inophyllum L. occasional

same,—in woods toward seaward end of islet

71 21 Artocarpus mariannensis Trec. 2 m. ↓ Tréc. common

71 +22 Carica papaya L. common

~~23 Dio~~

31 23 Dioscorea bulbifera occasional

42 24 Callicarpa rare

31 25 Achyranthes occasional

3 +26 Blechnum brownei f. puberula Fosb. locally common

22 27 Eugenia common

63 28 Zebrina pendula commonly naturalized

1 +29 Eleusine indica (L.) Gaertn. occasional in path.

31 30 Piper fragile common, on ground and climbing tree-trunks

---

Faraulap Atoll

~~Tree~~ small sterile tree 6 m. tall. "sevan"

large emergent tree, leaves + catkin picked up from ground "mäi"

small unbranched tree, flowers white. "waiwhai"

sterile twiner.

shrub 1.5 m. tall; flowers purplish pink. "ligatai"

erect herb. "ligakoka"

tree 10 m. tall; fruits obovoid, reddish, & "fariaf" fruit eaten.

prostrate, leaves purple beneath, striped above; flowers bright magenta-pink. "wareuna saipan"

"pugoruma"

vine, leaves glossy; ~~ste~~ aromatic when broken; sterile. "otuopua"

Labels
typed

1945 Caroline Is.

F+E

47331 Portulaca samoensis v. Poelln
1 + local in paths and
cultivated land.

x2 + 32 Fleurya ruderalis
occasional along paths

3 + 33 Thuarea involuta (Forst.) R+S.
locally common

1 34 Crinum sp.
locally common

1 35 Colocasia esculenta (L.) Scho Ct
occasional in small
clearing.

x 1 36 Crateva speciosa Volk.
abundant in understory

3 + 37 Mammea odorata (Raf.) Kost.
one small shrub seen

2 38 Pandanus dubius Spreng.
one tree seen

3 39 Artocarpus mariannensis Trec.
common

3 40 Premna obtusifolia R.Br.
common in understory
and canopy

1 + 41 Tacca ~~pa~~ leontopetaloides (L.) P. Ktze.
occasional

leaves used for garlands

x2 42 Pipturus argenteus
very common

x2 + 43 Pisonia grandis R.Br.
very common

x2 44 Ficus tinctoria Forst. f.
common

Faraulap atoll

fleshy, prostrate;
flowers yellow. "kop"

stems red, fleshy.
"kofarafat"
forming a mat.
"puga woupadap"
rosettes, all seen sterile,
slightly reddish green
"hiob"
sterile; chlorotic.
"wot omalu"

small tree 4 m. tall,
flowers white, turning yellow.
"afuch"
sterile shrub. "infoj" or "iofoj"
or "iofoch"
small tree, leaves
2 m. long. sterile "poku"
large tree, sterile.
"mäi"
sterile shrub. "eár"

scape almost 2 m. tall,
flowers green; leaves
complicated. "mokumok"
shrub 3 m. tall. "arome"

large sterile tree with
pale trunk. "mok"
sterile shrub. "howan"

Labels

typed
1965 Caroline Is.
F & E.

47345 Asplenium nidus L.
4 + common, Terrestrial

same – outskirts of
village
1 +46 Pseuderanthemum carruthersii
var. carruthersii
2 +47 Mirabilis jalapa L.
planted
~~4~~3 48 Acalypha hispida
planted

2 49 Acalypha
planted

1 50 Xanthosoma sagittifolium (L.) Schott
planted, scarce.
1 51 Xanthosoma violaceum
planted, scarce
1 +52 Pseuderanthemum carruthersii Seem.
var. carruthersii
planted
2 +53 Catharanthus roseus (L.) Don.
planted
~~3~~2 54 Cananga odorata
planted

~~1~~2 55 Pilea microphylla L.
local
~~1~~2 +56 Lippia nodiflora L.
rare, on bare coral gravel.
2 57 Lepidium cf. virginicum L.
rare, on bare coral gravel

Faraulep atoll

fronds forming rosette
almost erect. "wan'nu"

erect, unbranched shrub,
steril, "likaturning"
flowers whitish; much
branched herb.
shrub 1 m. tall, pistillate
spikes long, dark red.
"hatsiachil pat"
shrub 0.6 m. tall, pistillate
spikes reddish. (possibly
a dwarfed form of A. hispida).
petioles green, leaves
glaucous; steril
petioles dark purple,
leaves glaucous; steril.
shrub 2 m. tall, leaves
green; flowers white
with red spots around center.
dwarf shrub; flowers
white. "bobwosh"
shrub 3 m. tall; leaves
hanging vertically; steril.
"atis"

prostrate; flower white
?

Labels
typed

1945 Caroline Is Faraulap Atoll

7+E.

2	47358 +	Hibiscus tiliaceus L. rare	tree 6 m. tall, a few fruits high up. "ilifur".
2	59	Canna ~~[illegible]~~ indica L. rare	erect herb, 1 m. tall, flowers red. "aruru"
x 2	60	Polyscias scutellaria (Burm. f.) Fosb. commonly planted	shrub 1-2 m. tall; sterile, leaves concave. "hayang"
		same - in and on banks of taro marsh 0-1 m. ↓	
1 x	61	Hibiscus mutabilis rare	sterile shrub 1 m. tall
1	+ 62	Manihot esculenta Crantz rare	erect sterile shrub 1 m. tall.
2	+ 63	Gomphrena globosa rare, planted	branched herb; heads magenta.
4	64	Eclipta alba (L.) Hassk. locally common weed	erect, heads white.
1	65	Cyrtosperma chamissonis (Schott) Merr. principal crop planted	leaves erect; sterile. "pula" Cyrtosperma merkusii (Hassk.) Schott det DHNicolson (US) 6/1998
3	66	Eleocharis geniculata common on bare mud	
1	67	Colocasia esculenta (L.) Schott planted	glaucous "ot"
1	68	Hibiscus rosa-sinensis × schizopetalus occasional, edge of	slender shrub, flowers scarlet. "pus tal"
2	69	Saccharum officinarum L. occasional, planted.	canes, plants to 2 m. tall, sterile. "wol"
~~4~~ 3	70	Ceratopteris thalictroides common on bare mud	fertile fronds erect.
1	71	Ipomoea batatas planted	creeper
4	72	Echinochloa crus-galli (L.) Beauv. common weed	culms erect.

Labels

typed

1945 Caroline Is.

4, E

47373 Alternanthera sessilis
3 common on bare mud

4 + 74 Ludwigia octovalvis (Jacq.)
very common locally

45 75 Cyperus odoratus L.
common

~~3~~ 2 76 Ocimum sanctum L.
planted

3 + 77 Celosia argentea L.
planted or spontaneous

3 78 Cyperus brevifolius
common

same – in dry sunny cultivated
patches

~~2~~ 1 79 Coleus scutellarioides L.
planted

3 + 80 Asclepias curassavica L.
planted

2 + 81 Euphorbia hirta L.
occasional

3 + 82 Physalis angulata L
occasional

~~2~~ + 1 83 Nicotiana tabacum L.
planted

3 + 84 Eragrostis tenella (L.) Beauv.
abundant weed

4 85 Phyllanthus amarus Sch. + Th.
locally abundant

~~1~~ 3 + 86 Canavalia cathartica Thou.
common, flowering
where sun reaches it

2 + 87 Capsicum frutescens L.
occasional

Faraulep atoll

prostrate

Raven "sho" – erect herb 1–1.5 m. tall,
petals yellow, caducous.

herb 0.4 m. tall, aromatic,
racemes purple, corollas
pale lavender.

plant purplish, flowers
rose purple.

rhizome prostrate, firmly
rooted in mud; heads green.

1 m.
↓

leaves deep maroon purple

erect herb 1 m. tall;
corolla red, corona orange.

having a stunted appearance

sterile erect herb.

erect

vine climbing on bushes;
flowers rose pink.

shrub 1 m. tall, flowers white,
fruit scarlet "mwig"

Lapule

typed

1965 Caroline Is.
F+E

47388 Portulaca samoensis v. Poelln.
4 3+ common
x1 89 Portulaca oleracea L.
locally common
x1 90 Cosmos sulphureus
occasional

same - in mixed
Pisonia forest near seaward
end of islet
4 91 Digitaria
local in somewhat open places
x1 92 Cucurbita maxima
local in somewhat
open places
x1+93 Barringtonia asiatica (L.) Kurz
rare
3 94 Premna obtusifolia R. Br.
common
3 2 95 Ficus prolixa var carolinensis
one large tree seen
3 2+96 Tournefortia argentea L. f.
rare in thin places

same - on seaward
beach ridge
5 1+97 Ipomoea tuba (Schlecht.) Don
locally common

Faraulap Atoll

prostrate, fleshy; flowers
yellow. "kop"
prostrate, fleshy; stems
red. "~~[illegible]~~" "~~[illegible]~~" "iahud"
herb 1.5 m. tall; ray flowers
deep orange.

2 m
↓

"puko"

extensive creeper and
climber; leaves not
spotted. "calapwas"
tree 8 m. tall, sterile.

small tree; fruits green.
"eär"
banyan type tree, 15-20
m. tall. "hirian"
small tree 5 m. tall;
leaves sub-fleshy,
grayish; flowers white.
"chel"

3 m

vine, forming mat,
~~[illegible]~~ also seen climbing
in trees; flowers white,
wilted already at 10:30 a.m.
"ava'mas"

Aug. 17 – Mogmog I.
Entire lagoon beach lined with solid coconut plantation – no undergrowth seen except at west end, where a bit of Scaevola, & beach covered with Vigna, etc.

on west reef
Malotel I. – tiny islet with tall scrub, no coconuts.

Potangeras I.
Interior, toward lagoon, a large coconut grove. seaward half lined, at least with scrub forest, few coconuts showing. lagoon beach, also lined with forest, especially toward west end. But at west end no such forest and coconuts come down to beach.

Other islets too far away to see well. seem fairly well planted to coconuts.

south on east reef –
Bejep I. bare
Mas I. – small tuft of vegetation in sand flat.

~~Mangejat~~ Mangejan I.
planted to coconuts but north end, at least, choked with forest. Some scrub forest along lagoon beach. Coconut overhanging beach at s. end.

Lolang I. – almost entirely broad-leaf forest, only a few coconuts, clump near center and a few scattered ones. Small tuft of them at south end at top of beach. Tall central part of forest is probably Pisonia. Lower outer fringe of scrub forest Tournefortia, Pandanus and probably Guettarda.

Fasserai I. – northern half coconuts with slightly emergent breadfruit. Southern half solid coconuts no emergents from coconut canopy. Lagoon beach with interrupted strip of scrub. Pemphis?

Pemphis	hangi
Tacca	mokumok
Trumfetta	hara'a harak
Cocos	lu
Calophyllum	sevan
Premna	iar
Hib. til.	bulifue
Ficus tinct.	hawal (hawan)
Polypodium.	chichi
Carica	waiwai
Musa	iuch
Crateva	iabuch
Codiaeum	iobung iabung
Physalis ang.	pangpang
Vigna	holu
Hymenocallis	maching
Centella	habutal

Hernandia	ochál
Pandanus	fach
Cassytha	ulul
Morinda	(rol) lol
Wedelia	~~a~~ iathinth
Guettarda	iuth
Terminalia	kil
Pipturus	iroma
Digitaria	favil
Ficus prolixa	ngui ngai
agave	fach (?)
punica	uwal
Leptunus	favil

Labels typed

1965 Caroline Is. Ulithi atoll

with M. Evans Aug. 17 – Fassarai Islet
in village

47398 Pseuderanthemum carruthersii var. carruthersii 2 m shrub 2.5 m. tall, leaves green, flowers white with crimson spots in center.
43 +

planted
2 +99 Pseuderanthemum carruthersii va. atropurpureum (Bull) Fosb. shrub 2.5 m. tall, leaves dark purple. flowers crimson finely speckled with pink.

same – in coconut plantation in outskirts of village
47400 Ophioglossum spikes erect, leaves at ground level.
3 small patch in shade near path
6 01 Corchorus aestuans flowers yellow
locally common in semi-open ground
4 02 Lepturus repens var. "favil"
very common
1 03 Agave cf. sisalana small chlorotic sterile rosette.
one seen
3 04 Ficus prolixa small shrub 0.7 m Tall, sterile. "ngui" or "ngai"
one seen, terrestrial
~~05 Euphorbia chamissonis~~
same – in poor coconut plantation
3 05 Euphorbia chamissonis (Kl. + Gke.) Boiss. prostrate
growing in sun
1 06 Euphorbia chamissonis (Kl. + Gke.) Boiss. erect
growing in shade
2 07 Digitaria "favil"
common locally along trail
54 08 Phyllanthus
very common, especially along trail

Labels typed

1965 Caroline Is.

47409 Terminalia samoensis Rech.
1 + occasional

1 (10 Bidens pilosa L.
locally common

same - in village

2 +11 Codiaeum variegatum
commonly planted

Left Ulithi Aug. 17, 10 p.m.
Arrived Yap Aug. 18, 8:15 am
got ashore by 10 a.m.

Ulithi atoll

sterile shrub 1.5 m. tall;
"kil"

shrub, leaves green
with yellow spots.

1965 Caroline Is.

Yap.
cult. plants

Thevetia peruviana
Albizia lebbek.
Cymbopogon citratus;
Theobroma cacao

(paper on ramie culture
in Micronesia (or in Palau)
put out by Palau dept. of agriculture)

Samanea saman
Rhaphidophora aurea
Dieffenbachia picta
Acalypha hispida

Labels typed

Aug. 19 – Between Colonia and
High School
in secondary forest
47412 Scleria
4 common under trees
2 13 Diospyros??
occasional
3 14 Malaxis
common
4 15 Diospyros?:
occasional

Left Yap Aug. 20 11:30 am.
Arr. Airai, Palau. 12:45 p.m.
(TT plane)

Yap Island

1 m

shrub 4 m. tall, sterile.

flowers yellowish.

– sterile shrub 2.5 m. tall,
young growth red.

1965 Palau Is.

Labels typed

Aug. 21 - Koror
Ngerebe'ed
(Entomology Station)
in garden

47416 Mussaenda frondosa var.
6 planted, but of local origin

17 Mussaenda frondosa var.
6 planted, but of local origin

18 Mussaenda erythrophloea
5 planted

10 m.

large shrub 4-5 m. tall, enlarged calyx-lobe white, corolla-limb bright yellow; fruit immature.

large shrub 4 m. tall, enlarged calyx-lobe white, corolla-limb bright yellow.

shrub 4 m. tall; pubescence red. enlarged calyx-lobe bright red above, dull pink beneath; corolla red pubescent without, cream-color within, center deep maroon.

Spondias pinnata
used for condiment.

Lansium domesticum.
planted 15 years ago
now a spindly sterile
tree 3 m. tall. Not otherwise
here.

Araucaria excelsa
some old trees on Babeldaob
one small one at station

Annona squamosa ~~[illegible]~~ Owen
brought from s.e. Asia (Thailand?)

Trichosanthes
(fruit an orange ball)
brought from Thailand)

Chrysophyllum cainito

Gliricidia sepium
from agric. station, Palau

Psidium guajava

Piper nigrum
Agr. Dept. introduction

Alpinia nutans

Antidesma bunius
Owen introd. from Indonesia.
5½ year old tree 6 m. fruiting
abundantly.

Nymphaea
deep pink night flowering
closes 9 am ?

Eichhornia crassipes

Cananga odorata
established

Colocasia sp.
zuigi
peltate, but blades
almost erect.
petioles eaten. leaves
not acid to taste.

Cymbopogon citratus

Agave sp. caulescent
white margin, lvs 3 dm long
twigs used for blowgun darts

Pterocarpus ~~kisachi~~
kisachs

Acalypha ermalayang

1965 Caroline Is.

Labels typed

Aug. 22 – Ngerebe'ed
in grounds of Entomology
Laboratory

4~~6~~4 19 Pachyrhizus erosus (L.) Urb.
planted

11
3 20 Russelia equisetiformis
planted

9 21 Acalypha hispida
planted

6 22 Acalypha wilkesiana
planted

5 23 Spermacoce suffrutescens Jacq.
common

1 24 Panicum
weed

3 25 Leea sambucina
planted (but of local origin)

6 26 Crotalaria incana
planted

2 27 Heliconia
planted

10 m.

vine, racemes
erect, stiff; flowers dull blue.

arching herb; corollas
red.

shrub 1.5 m. tall,
pistillate catkins
dark purplish red
pendent.

shrub to 2 m. tall;
leaves dark bronze green,
splotched with pinkish
red, spikes dull
reddish.

erect herb, flowers
pinkish.

tall shrub, 4 m. tall,
flowers dull yellow,
ripe fruit black.

herb 1.5 m. tall; flowers
yellow, without brown
lines; brought from
Jaluit.

large clump, to
2.5 m. tall; spikes
erect or almost so,
bracts scarlet with
green and white margins,
flowers green and white;
water held in bracts.

Labels

typed

1945 Caroline Islands

47428 Eugenia malaccensis
7 planted

7 29 Diospyros discolor
planted

6 30 Cordia ~~sub~~ sebastena L.
planted

with Evans
m. 31 (scroph)
4 ↓ common on bare ground

1 32 Ipomoea aquatica
planted

5
4 33 Oxalis
weed in bare ground

5 ↑ 34 Hedyotis corymbosa
weed in bare ground

6 34a Ocimum sanctum L.
planted

Palau — Koror

tree 6 m. tall; flowers
deep rose pink.
fruits said to be edible
(said to be deep red and
greenish on same tree).

tree 5 m. tall; flowers
cream color, silky without,
young fruit reddish hairy,
older fruit dull whitish.

tree 5 m. tall, flowers
deep orange; brought
from Guam by Owen.

flowers purplish blue

creeper, flower white;
eaten as potherb;
brought from southeast
asia by H. Owen.

flowers pink.

sprawling herb.

branched, low bushy, aromatic.

Aug. 23 - boat trip to
Auluptagel & Urukthapel
from boat dock.

Pouteria is a conspicuous element in vegetation on steep limestone - gray-brown color. No palms on ridges but quite a few small ones on slopes. Dracaena very common. Some Pandanus, several spp.

Ngerang Nail - appears to be a small volcanic protrusion from north part of Aulaptagel at foot main
open area of Iwayama Bay.
Surrounded by fringe of mangrove.

Iwayama Bay area & islands called Ngerama'aich.
Complex labyrinth of islets and channels at lower end.
Guettarda common on lower cliffs.
Garcinia rumiyo with long, virgate branches spreading from top of slender trunk occasional.
Fruit used to flavor food

Near M-dock, end of canal to Malakal harbor
Leucaena very common on filled land.
Dii'ebachel seawar
~~Jibaks~~ beach, Auluptagel

Eugenia sp. rebotel
fruit eaten
leaves used after childbirth

Allophylus timorensis -
ebeluddes
ingredient in headache medicine

Carpatia stft.
poisonous
used medicinally
young lvs. mashed for "asthma" afterward coconut syrup ~~mixed with~~ ~~water~~ & drunk.

Meryta? omidel
used as abortifacient

Averrhoa bilimbi
medicinal "emuukurs"
used by women after childbirth

Macaranga bedel
emetic used when
~~or~~ eaten something
bad.

Parica – pounded
roots to clear
head.

Premna – ossem
juice or slime from
peeled stem used
~~as styptic or haemo-
static~~ to heal wounds

Glochidion ngolem
mashed leaves
as haemostatic.

Xylosma? emong
fruit eaten

Clerodendrum
speciosissimum
"butarar"
mashed leaves to relieve
itching of rash.

– enué a kerweao
~~ngereve~~ leaves
chewed with
betel-nut.

Piper kasibibui
juice blown out of a
short section of woody
stem used as eye-drops
when eyes are ~~[illegible]~~ red or
have dirt in them.

alpinia – delebezebes
tall one – used for
medicine
stem used to cure
spear wounds
sap must be
blown into wound
by someone else.

ambroma lap or loincloth
bast fibers for rope, skirts etc.
Colubrina drigeb
soap made from leaves

Pipturus – arumalueng

Ficustinct. – osebed

Dioscorea esiách

~~to~~
Caesalpinia tologulik

Flagellaria ~~[illegible]~~ roul

ulelamedei-
bèlau

Operculina turp. ~~besfuz~~ besbus

leaves wrapped around Tridacna + sea anemone for cooking, they all eaten

Nephrolepis – mariul
medicine

Glochidion kesengel el godem
~~g~~ medicine for teeth

Fagraea ralam

Randia coch Termis
make tea

Callicarpa cand. duk

Callicarpa el. arué

Ngarabe'ed bead,

Pangium
Areca
Cocos
Spondias
Averrhoa
Codiaeum
Citrus
Cyrtosperma
Eugenia

1965 Caroline Is.

~~Labels typed~~

Aug. 23 - Dii'ebachel beach, east end of Aulupse'el I. on small sand flat back of beach

47435 Eugenia 10
several trees

5 36 Polyscias grandifolia
common

1 37 Allophylus timorensis Bl.
common

1 38 Meryta senftiana
common

1 39 Averrhoa bilimbi
one tree seen near edge of enclosed pond.

3 40 Citrus
several seen, probably planted.

5 41 Artocarpus cf. mariannensis
common, said to occur principally in limestone islands

1 42 (alga?)
parasitic on Alocasia macrorrhizos

Palau Is. - Aulupse'el I.

2 m ↓

typhoon-beaten large tree; fruit immature. "rebotel", ~~th~~ fruit eaten; leaves said to be used medicinally after childbirth.

— ~~sha~~ unbranched shrub 3 m. tall; flowers and young fruits purplish black, styles green.

— shrub; flowers white; fruit red. "ebeluchdes" said to be an ingredient in a headache medicine.

— seedling of a tree that reaches a considerable height. "omidel" said to be used as an abortifacient.

— small sterile tree. "emudkuus" said to be used by women after childbirth.

— small trees, very aromatic, fruit globose with a slight neck, about 7 cm. diam.

— 4 m Tall tree

2 m ↓ causing bright yellow spots in leaves.

Labels typed

— 1965 Caroline Is.

4744~~3~~ 3 2 Flacourtia rukam ?
seedlings only seen

1 44 Clerodendrum speciosissimum
seedlings only seen

1 45 Glochidion
~~?~~ occasional

1 46 Premna obtusifolia R.Br.
occasional

1 47 Alpinia
occasional

5 48 Piper
common

2 49 Callicarpa ?
occasional

2 50 Ixora casei Hance
common

Palau Is.

seedling 1.5 m. tall, young growth red. "em ong" fruit said to be eaten.

— seedling 1 m. tall, sterile, ill-scented; "butarar" mashed leaves said to be used to relieve itching of a rash.

— sterile shrub; "ngalem" mashed leaves used as a haemostatic or styptic.

— sterile shrubs only seen. "ossem" juice or slime from pealed stem used to heal wounds.

— slightly aromatic. canes to 1.5 m. tall, ~~?~~ enlarged at base "delebezebes" sap blown from cut stem into spear wounds to heal them.

— woody vine, climbing trees, sterile; "kasibibui" sap blown from short section of woody stem into eye as an eye drop for inflammation and to wash out foreign particles.

— sterile shrub; "erué" or "kerweao" leaves chewed with betel nut.

— shrub 1.5 m. tall; flowers scarlet.

Labels typed

1965 Caroline Is.

47451 Acalypha amentacea var.
3 occasional
3 52 Colubrina asiatica
occasional

10 53 Abroma augusta L.
common

1 54 Caesalpinia

2 55

occasional
1 56 Pipturus
occasional
3 57 Ficus tinctoria
occasional
1 58 Trichosanthes
rare
4 59 Callicarpa
occasional
2 60 Dioscorea
common

1 61 Garcinia rumiyo?
occasional
6 62 Dioscorea
occasional
3 63 (legum.)
common

Palau Is.

shrub 1 m. tall,
pistillate spikes erect.
— subscandent sterile shrub;
"drigel" leaves rubbed
— up and used for soap.
shrubs 3 m. tall, stems
armed with stinging hairs,
petals deep maroon-purple
toward base, yellowish
at tips. "lap" bast
fibers used for rope
and to weave skirts,
— lava-lavas, etc.
vine; "tologulik"

sapling 1.5 m. tall,
— sterile.
shrub; leaves green
— beneath "
sterile shrub; "osebed"
— lactiferous fruit eaten
sterile vine

shrub 2 m. tall;
— fruits purple.
sterile vine, with
either alternate or
opposite leaves. "esiach"
— tubers eaten.
sterile sapling

—
sterile vine - said to
— be same as 47460. "esiach"
erect sterile shrub, becoming
a twiner.

1965 Caroline Is

Labels typed

Aug. 23 - Ngerebe'ed beach,
east end of Aulupse'el I.
on sand flat between beach and taro marsh.

47464 Dioscorea bulbifera L.
3
occasional

1 65 Citrus hystrix?
one tree back of beach

6 66 Glochidion
occasional

6 67 Cayratia
common

3 68 Ixora casei Hance
occasional (but leaf width variable)

3 69 Horsfieldia
occasional

1 70 Pteris tripartita
occasional

Palau

7 m

sterile vine with underground tubers, this dull purplish within, tasteless
— tree 7 m. tall, very aromatic; fruits ellipsoid to obovoid.
— shrub 2.5 m. tall, flowers green; "kesengel el ngolem": toothache remedy.
— extensive vine, on ground and in trees, flowers green.
said to be poisonous, but used medicinally — young leaves mashed and taken for "asthma" (afterward coconut syrup taken).
— shrub 1.5 m. tall; flowers scarlet.
— small tree, branching aerial issuing from trunk near base; sterile;

Labels typed

1945 Caroline Is.

47471 Operculina turpethum
2 occasional

2 72 Randia cochinchinensis
occasional
2 73 Codiaeum variegatum
occasional, apparently
naturalized
4 74 Glochidion
occasional

9 75 Acalypha amentacea
occasional
3 76 Nephrolepis
common
2 77 Flagellaria
occasional
4 78 Callicarpa candicans
occasional
3 79

common

same - around taro
marsh well back of beach
20 80 Canthoria
very common

Palau Is.

extensive sterile vine;
"besbus" leaves wrapped
around sea anemone and
tridacna, cooked and eaten.
sterile; "terumis" used for tea.

shrub 3 m. tall, leaves
somewhat variegated
with white and pink.
slender tree 5 m. tall
flowers greenish.
"ngolem"
shrub 2 m. tall.
"marsul" used
medicinally by men.

vine; "rulelamedeibelau"

sterile shrub "duk"

sterile shrub;
used in cooking

1 m

tree 15 m. tall,
fruits pendent,
bright orange.
"ralam"

1965 Caroline Is.

Label typed

Aug. 24 – Ngerebe'ed, Koror I.

11 around Entomology Laboratory

47481 Moringa oleifera
planted

10 m

tree 10 m tall, 25 cm dbh.,
flowers white,
fruit pointing
vertically downward;
leaves eaten.

1965 Caroline Is.

Plants observed or collected on grounds of the Entomology Lab. at Ngerebe'ed.

Premna obtusifolia
Pangium edule
Eugenia malaccensis
Moringa oleifera
Mussaenda erythrophlea
Mussaenda frondosa
Diospyros discolor
Araucaria excelsa
Horsfieldia
Tamarindus indica
Leea sambucina
Acalypha hispida
Acalypha wilkesiana
Codiaeum variegatum
Heliconia
Mangifera indica
Carica papaya
~~Ocimum~~
Thunbergia grandiflora
Cordia sebastena
Acacia confusa
Plumeria obtusa
Plumeria rubra
Gardenia jasminoides
Hibiscus mutabilis
Jasminum cf. multiflorum
Persea americana
Boerlagiodendron sp.
Cocos nucifera

Palau

Sporobolus diander
Crotalaria incana
Crotalaria mucronata
Crotalaria spectabilis
Chrysopogon aciculatus
Zea mays
Ageratum conyzoides
Oxalis corniculata
Oxalis
Nymphaea
Eichhornia crassipes
Ocimum
Spermacoce suffruticosa
Zephyranthes rosea
Pachyrhizus erosus
Hedyotis corymbosa
Ipomoea aquatica
Russelia equisetiformis
~~Ocimum~~
Hymenocallis littoralis
Caladium bicolor
Nephrolepis biserrata
Hedychium coronarium
Alpinia nutans

Angiopteris evecta
Allamanda hendersonii
Cordyline fruticosa
~~[illegible]~~
Pandanus cf. tectorius
(variegatus var.)
Gmelina
Leucaena leucocephala

Nymphaea in Ngerebe'ed. came from a river in Babeldaob.

Stephen Peachem
c/o Distad
Yap. Western Caroline Is.
Trust Territory of Pacific Is.

Interior
T.A. G1683